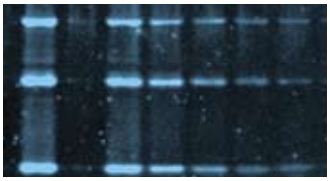
HUMAN HEALTH

ENVIRONMENTAL HEALTH

RUN ON TIME WITH RELIABLE WESTERN BLOTTING PERFORMANCE



Western Lightning™
Protein Detection Reagents

PerkinElmer®
For the Better

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THE HIGHEST SENSITIVITY IS NOW ARRIVING

Western blotting is the most widely used technique for detecting specific proteins. And PerkinElmer brings you a wide range of western blotting solutions, including our new Western Lightning *Ultra*. Now, you can have the highest level of sensitivity, specificity and confidence in your results.

By offering a unique combination of specific immunodetection and size-based separation, western blotting gives you reliable, convenient, high-quality data. Maybe that's why it's still considered the gold standard in protein detection.

With PerkinElmer expertise and enhanced western blotting performance, you can find answers to important questions. And run on time, every time.

Advantages you need to stay on track

- The ultimate sensitivity
- Robust detection under a variety of conditions
- Reduced consumption of precious antibodies and sample
- Wide dynamic range
- Choose from a broad range of detection methods

Western blotting is part of PerkinElmer's Complete Solution including reagents, instruments, automation and services.

A TIME-TESTED TECHNIQUE PERFECTED BY PERKINELMER

Researchers have depended on western blotting for over 25 years. As a result of our continuous advancements in materials and technology, this essential tool is more reliable and convenient than ever before.

Typical western blotting protocol

SEPARATION AND TRANSFER

- Separate proteins by electrophoresis
- Transfer to PolyScreen® PVDF or Protran® nitrocellulose membrane

BLOCKING, ANTIGEN LOCALIZATION

- Block non-specific binding sites by incubating membrane in blocking buffer and wash
- Incubate membrane with primary antibody and wash
- Incubate membrane with secondary antibody and wash

DETECTION

- Incubate with substrate as appropriate and prepare blot for imaging

VISUALIZATION

- For chemiluminescence or autoradiography, expose to film or imager
- Chromogenic blots may be seen with the naked eye or imaged with a document scanner

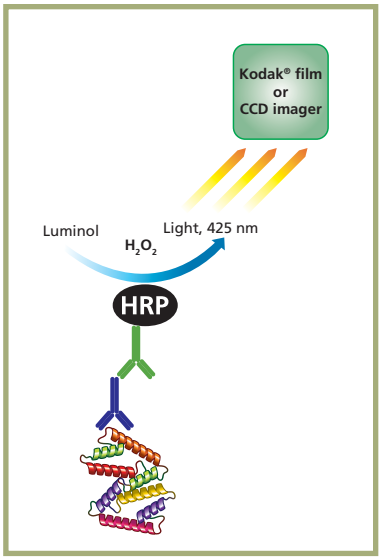
STRIPPING AND REPROBING

(optional – only for chemiluminescent or radiometric detection)

- Incubate with stripping buffer, wash
- Incubate with chemiluminescent substrate
- Expose to film or CCD to make sure the original signal is removed
- Go back to the blocking step

To see our western blotting protocols in more detail, go to www.perkinelmer.com/gowesternblot.

Western blotting detection methods



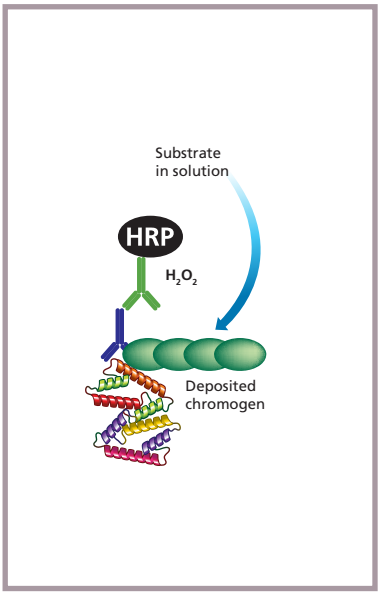
CHEMILUMINESCENT DETECTION

ENZYMATIC REACTION PRODUCES LIGHT

- Very sensitive
- Membrane may be stripped and reprobed for detection of additional targets

TOOLS

- Multicolor or biotin protein markers
- PolyScreen PVDF transfer membranes
- Protran® nitrocellulose transfer membranes
- BLAST® blocking reagent
- HRP or AP reagents
- Western Lightning substrates
- Kodak® film



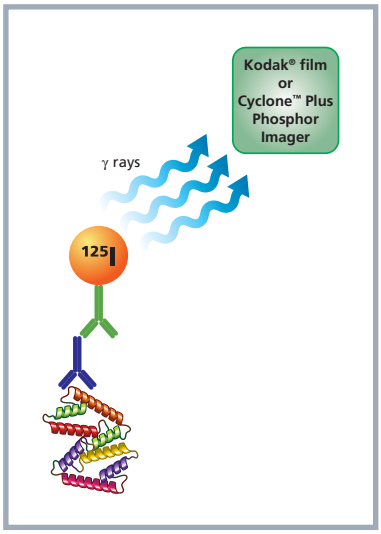
CHROMOGENIC DETECTION

ENZYMATIC REACTION CAUSES PRECIPITATION OF A COLORED SUBSTRATE

- Direct visual method
- No need for film or imaging equipment
- Use Western BLAST for best sensitivity

TOOLS

- Multicolor or biotin protein markers
- PolyScreen PVDF transfer membranes
- Protran® nitrocellulose transfer membranes
- BLAST blocking reagent
- HRP or AP reagents
- Western BLAST and other chromogenic substrates



RADIOMETRIC DETECTION

DIRECT DETECTION OF RADIOMETRIC SIGNAL

- Highly sensitive
- Fewer steps required for detection
- Membrane may be reprobed for detection of additional targets

TOOLS

- ^{14}C protein markers
- PolyScreen PVDF transfer membranes
- Protran® nitrocellulose transfer membranes
- BLAST blocking reagent
- ^{125}I Protein A and Protein G

MOVE FORWARD WITH LIGHTNING PERFORMANCE

PerkinElmer's Western Lightning chemiluminescent substrates combine exceptional sensitivity and dynamic range with safe, enhanced luminol chemistry. We offer a range of high-quality products to meet all your performance and budget needs.

Chemiluminescent substrates for detection of horseradish peroxidase (HRP)

Western Lightning *Ultra*

- The highest sensitivity, with low femtogram limit of detection
- Uses less of your precious primary antibody and sample
- Wide dynamic range, for robust results in just one experiment
- Immediate, intense signal for eight hours; ideal for CCD imagers as well as film
- Works well with PVDF or nitrocellulose

Western Lightning *Plus*

- Twice the sensitivity of standard ECL substrates
- Direct protocol transfer from standard ECL substrates
- Reduces cost of assay by using less primary and secondary antibodies
- Works well with PVDF and nitrocellulose

Western Lightning ECL

- Delivers outstanding value
- Offers easy conversion
- Works well with PVDF and nitrocellulose

Chemiluminescent substrates for detection of alkaline phosphatase (AP)

Western Lightning™ CDP-*Star*®

- Superior sensitivity
- Continuous, strong signal for 24 hours
- Ready to use
- For use with PVDF membrane

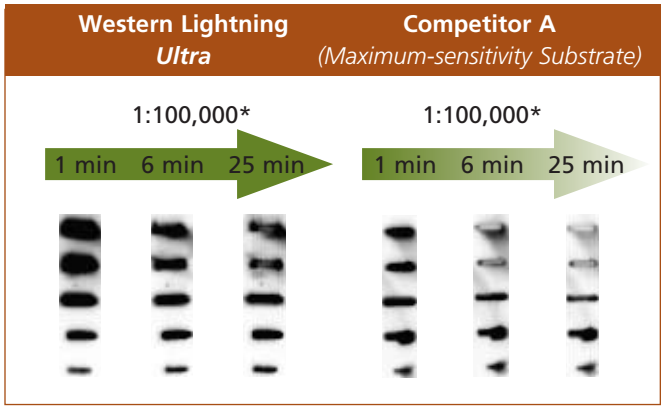
Western Lightning™ CDP-*Star*® with Nitro-Block II™ Enhancer

- Reduces exposure time with up to 10 times stronger signal
- Strong 24-hour signal
- Ready to use
- Works well with nitrocellulose and PVDF membranes

Western Lightning *Ultra*

Outstanding sensitivity with stable signal

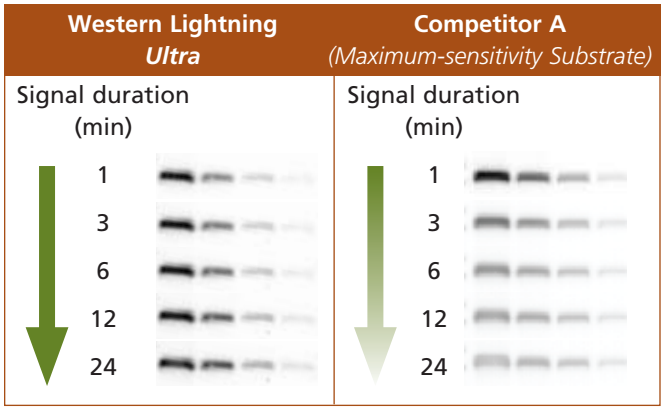
The signal from Western Lightning *Ultra* remains stable over time, making it very tolerant of normal variability in workflow and ideal for repeated exposures.



*GAR HRP dilution
1-minute exposures taken at time intervals after substrate incubation. Slot blots, fivefold serial dilutions of rabbit IgG starting at 100 ng. Goat anti-rabbit HRP dilution following substrate manufacturer's recommended conditions.

Good results with less optimization

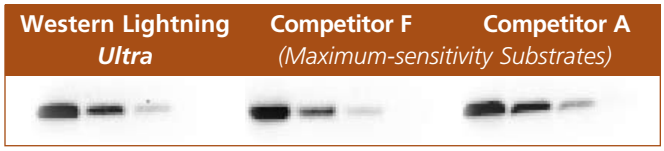
Other high-sensitivity products can be "finicky," requiring careful optimization. Western Lightning *Ultra* provides outstanding results even when conditions are not optimal.



Western blots, initial conditions: serial dilutions of C2C12 cell lysates, 10 µl sample, rabbit anti-total AKT 1:2,000, anti-rabbit HRP 1:100,000, 1-minute exposures.

At least as sensitive as other "maximum"-sensitivity substrates

Western Lightning *Ultra* delivers sensitivity on par with the top competitive products.



Western blots, optimized conditions: serial dilutions of C2C12 cell lysates, 10 µl sample, rabbit anti-total AKT 1:20,000, anti-rabbit HRP 1:100,000, 1-minute exposures.

Western Lightning *Plus*

Excellent sensitivity relative to standard "ECL" products

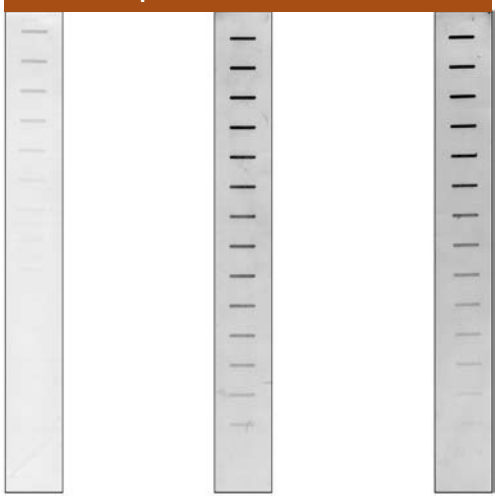
Western Lightning *Plus* allows you to detect targets that you may miss with standard products.

Western blots, serial dilutions of peanut lectin, rabbit anti-peanut lectin antibody, goat anti-rabbit HRP, 1-minute exposures.

CREATE A RECORD THAT STANDS UP OVER TIME

Chromogenic detection gives you the convenience of direct colorimetric visualization of results without the need for a film or imaging instrument. Also, results are recorded permanently on the transfer membrane and won't fade over time. Sensitivity is generally less than chemiluminescence detection, but you can improve it significantly with the Western BLAST Amplification System.

Conserve precious antibodies



Primary antibody dilution 1:1 K; Standard Chromogenic Detection.

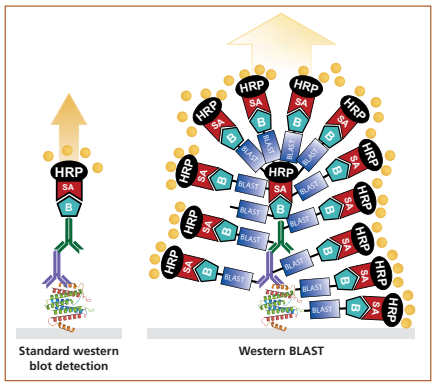
Primary antibody dilution 1:1 K; Western BLAST Detection.

Primary antibody dilution 1:10 K; Western BLAST Detection.

Chromogenic substrates for detection of horseradish peroxidase

Western BLAST

- Amplified detection increases signal strength eight- to tenfold
- Offers novel CARD (Catalyzed Reporter Deposition) technology
- Delivers sensitivity of chemiluminescent reagents, while maintaining visual chromogenic methods
- Reduces use of precious or expensive antibodies



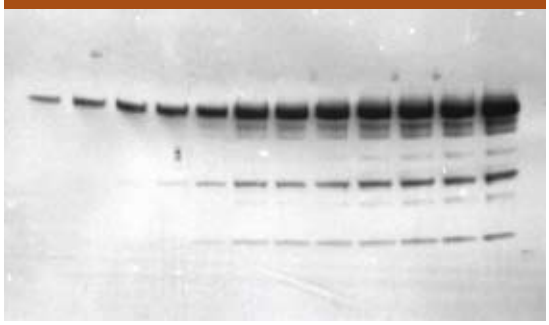
Western BLAST uses proprietary signal amplification technology to deliver the highest sensitivity in chromogenic detection.

Chromogenic substrates for detection of alkaline phosphatase

4CN *Plus*	BCIP/NBT
Produces dark purple precipitate in the presence of HRP	Deposits a permanent dark purple stain on membrane sites bearing phosphatase
10 times more sensitive than standard 4CN (4-chloro-1-napthol) formulations	Combination of BCIP (5-bromo-4-chloro-3-indolyl-phosphate) and NBT (nitroblue tetrazoleum) produces much higher sensitivity than either reagent separately
	Ready-to-use

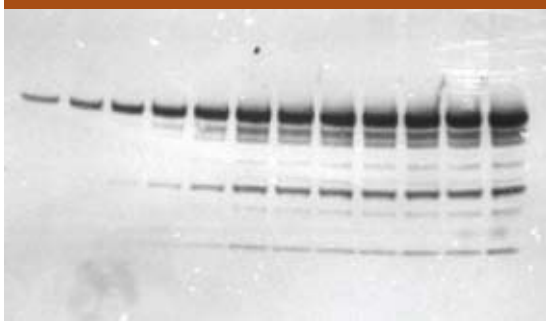
Comparison of 4CN *Plus* and BCIP/NBT detection methods

4CN *Plus* Imaged



4CN *Plus* Substrate detects HRP and is ideal for western blotting applications.

BCIP/NBT Imaged



BCIP/NBT Substrate detects alkaline phosphatase in blotting and slide applications.

Dilutions of bovine α-tubulin (starting at 800 ng) were electrophoresed and electroblotted onto PolyScreen PVDF Transfer Membrane. Western blot detection was carried out using anti-tubulin antibody, either goat anti-mouse HRP or goat anti-mouse AP. Stained blots were visualized on a commercially available imaging system.

TRACK IT
CONFIRM IT
VISUALIZE IT

Multicolor protein markers

Multicolor protein molecular weight markers are the perfect solution for qualitative molecular mass determinations in SDS-PAGE systems, and for visual confirmation of western blot transfer efficiency. They're composed of eight proteins, which have been chemically reduced, alkylated and conjugated to brilliantly colored dyes.

Brilliant Advantages

- Easily track gel separation and confirm transfer to membrane
- Colors let you know instantly "which side is up" on your gel or membrane
- Increase stability and ease of use with liquid, -20°C storage
- Ready to use – no resuspension, reduction or heating required

Composition of multicolor protein markers (apparent molecular weight)

Gel	Blot	Protein	4-20% Gel Tris-Glycine (kDa)	10-20% Gel Tris-Tricine (kDa)
		Myosin-violet	220	210
		BSA-red	100	90
		GDH-blue	60	65
		ADH-red	45	40
		Carbonic anhydrase-orange	30	30
		Trypsin inhibitor-blue	20	20
		Lysozyme-red	12	13
		Aprotinin-blue	8	8

Gels: 5 µL multicolor protein markers loaded on 10-20% Tris-Tricine gel.
Blot: Bands transferred to nitrocellulose membranes from the gels.

^{14}C methylated molecular weight markers

^{14}C-labeled markers are for use in radiometric applications. The electrophoretic mobility of methylated molecular weight markers is identical to the unmodified individual protein.

Biotinylated protein molecular weight markers

Excellent for determining precise molecular weight measurements, this mix of biotin-labeled proteins results in a ladder of six equal-intensity bands ranging from 12,300 to 97,400 daltons, for use in western blotting applications.

Protein mix of ^{14}C methylated and biotinylated protein markers (molecular weight, kDa)

Protein	Molecular Weight (kDa)
Phosphorylase b (rabbit muscle)	97.4
Bovine serum albumin	69.0
Ovalbumin (chicken egg white)	46.0
Carbonic anhydrase (bovine erythrocytes)	30.0
Trypsin inhibitor (soybean)	20.1
Cytochrome c (horse heart)	12.3

YOU'LL GO FURTHER WITH A HIGHER SIGNAL

Horseradish peroxidase (HRP) is a 44 kDa glycoprotein that catalyzes the oxidation of specific substrates in the presence of hydrogen peroxide. This results in emission of light, or deposition of colored or fluorescent product.

As an antibody or streptavidin conjugate, horseradish peroxidase is widely used for detection of specific molecular targets. The high turnover rate of HRP enables you to get a high signal quickly. It provides excellent stability and is the most popular enzyme for chemiluminescent western blotting detection.

HRP-conjugated secondary antibodies
Affinity-purified polyclonal antibody to mouse, rabbit or human IgG heavy and light chains (whole IgG) made in goat and labeled with horseradish peroxide
Provided in liquid form, 1 mg/mL
Tested to ensure specificity and lot-to-lot consistency with ELISA

HRP streptavidin
Highly sensitive detection of biotin-labeled targets
Provided in liquid form
Stable for at least six months when stored at 2-8°C

LOOKING FOR A CATALYST TO KEEP YOU ROLLING?

Alkaline phosphatase (AP) is a 140 kDa dimeric metalloenzyme that catalyzes the removal of phosphate. When paired with an appropriate substrate, the reaction causes emission of light (Western Lightning™ CDP-*Star*®) or dye deposition (BCIP-NBT).

More thermally stable than HRP, AP is often used in hybridization experiments for detection of DNA or RNA sequences. It also offers high sensitivity and long signal life in chemiluminescence.

AP-conjugated secondary antibodies

- Affinity-purified polyclonal antibody to mouse or rabbit IgG heavy and light chains (whole IgG) made in goat and labeled with phosphatase
- Advanced conjugation technology offers threefold higher sensitivity than standard products
- Provided in liquid form, 1 mg/mL
- Stable for minimum of one year when stored at 2-8°C
- Tested to ensure specificity and lot-to-lot consistency with ELISA

AP streptavidin

- Highly sensitive detection of biotin-labeled targets
- Provided in liquid form
- Stable for at least six months when stored at 2-8°C

BLAST blocking reagents

When it is used as a blocking reagent, non-fat dry milk may be a source of excess background. BLAST blocking reagents minimize non-specific background for the best signal-to-noise ratio in your western blotting experiments.

ONE STOP FOR ALL YOUR RADIOMETRIC SOLUTIONS

Recombinant ^{125}I-Protein A and ^{125}I-Protein G for direct autoradiographic detection

Proteins A and G are recombinant proteins with the ability to bind mammalian immunoglobulins. Protein A reacts with most IgG subclasses, while Protein G reacts more broadly with all IgG subclasses.

Immunoglobulin-binding specificities of Protein G and Protein A conjugates

Immunoglobulin	Protein G	Protein A
Human IgG_1	+ +	+ +
Human IgG_2	+ +	+ +
Human IgG_3	+ +	- - - -
Human IgG_4	+ +	+ +
Mouse IgG_1	+/-	+ +
Mouse IgG_{2a}	+ +	+ +
Mouse IgG_{2b}	+ +	+ +
Mouse IgG_3	+ +	+ +
Rat IgG_1	+	+
Rat IgG_{2a}	+ +	- - - -
Rat IgG_{2b}	+	- - - -
Rat IgG_{2c}	+ +	+ +
Pig IgG	+ +	+
Rabbit IgG	+ +	+ +
Bovine IgG_1	+ +	- - - -
Bovine IgG_2	+ +	+ +
Sheep IgG_1	+ +	- - - -
Sheep IgG_2	+ +	+ +
Goat IgG_1	+ +	+
Goat IgG_2	+ +	+ +
Horse IgG (ab)	+ +	+
Horse IgG (c)	+ +	+
Horse IgG (T)	+	- - - -
Dog IgG	+	+ +

+ + = strong binding + = weak binding - - - - = no binding

More information available at www.perkinelmer.com/underoneroof.

OUR TRANSFER MEMBRANES WILL KEEP YOU ON THE RIGHT TRACK

PerkinElmer offers only the highest quality transfer membranes. They facilitate detection by concentrating small amounts of target molecules on the surface of the blot, making them more accessible to antibodies. The level of sensitivity is influenced by membrane-binding capacity and relative amount of non-specific binding.

Transfer membranes at a glance

Membrane Type	Binding Capacity (µg/cm²)
Nitrocellulose (Protran®): Excellent sensitivity, resolution and background	80-100
PVDF (PolyScreen): Intermediate binding capacity for outstanding sensitivity and low background	170-200

PolyScreen PVDF Transfer Membranes

Effective alternative to nitrocellulose membranes for protein transfers

Detects low levels of protein and decreases exposure time

Adapts to most nitrocellulose membrane protocols with the addition of a pre-wetting step

Stronger than nitrocellulose, eliminating the chance for distortion

Durable Advantages

- Exceptional durability
- Good sensitivity
- Easy to use
- Highly flexible and versatile
- Non-flammable for greater safety

Protran® Nitrocellulose Transfer Membranes

Complete selection of leading Schleicher & Schuell Protran® nitrocellulose membranes

No cellulose acetate added, ensuring the highest binding capacity

Superior signal-to-noise ratios, without the need for stringent washing conditions

Choice of two pore sizes:
- 0.2 µ size ensures high retention of small proteins below 20 kDa
- 0.45 µ pore size membrane is ideal for larger molecular weight samples

Pure Advantages

- Pure 100% nitrocellulose
- Very low background
- Easy to use, with no methanol pre-wetting step
- Incredible simplicity

PerkinElmer offers a full range of transfer membranes for protein and nucleic acid applications. For more information, please go to www.perkinelmer.com.

OPEN UP YOUR RESEARCH WINDOW WITH BETTER FILM

PerkinElmer brings you the leading referenced scientific film. With Kodak®, you have a convenient way to visualize chemiluminescent and radiometric western blots, and a permanent record that can be scanned for publication. It's the high-quality film you need to do more with your research.

BioMax® Light Film

Best choice for detection of chemiluminescence labels

Maximum clarity and sensitivity

Highest signal-to-noise ratio of any scientific film

BioMax® XAR Film

Industry standard general-purpose film for all commonly used isotopes and chemiluminescence labels

Coated with emulsion on both sides of a clear base

High sensitivity for direct autoradiography and for exposures with BioMax® MS or TranScreen™ intensifying screens

X-OMAT® Blue Film, only from PerkinElmer

Fine-grained, low-fog blue film that provides excellent sensitivity, sharp resolution and high-contrast images

Economical choice for chemiluminescence detection and all commonly used isotopes

Most sensitive blue film for luminol-based chemiluminescence and the fastest for dioxetane-based chemiluminescence

Use with BioMax® MS screen for excellent results detecting ^{32}P-labeled probes

BioMax® TranScreen™ HE Intensifying Screens

Designed for use with high-energy (HE) beta emitters, such as ^{32}P and ^{125}I, TranScreen HE provides high sensitivity and high resolution of these penetrating isotopes

Innovative intensifying technology provides five times faster results than conventional intensifying screens

Yields publication-quality images of high-energy-emitting radiolabeled samples

PerkinElmer is your one-stop shop for Kodak® scientific films, intensifying screens and accessories.

GO EXPRESS WITH NO-WASH ALPHA TECHNOLOGY

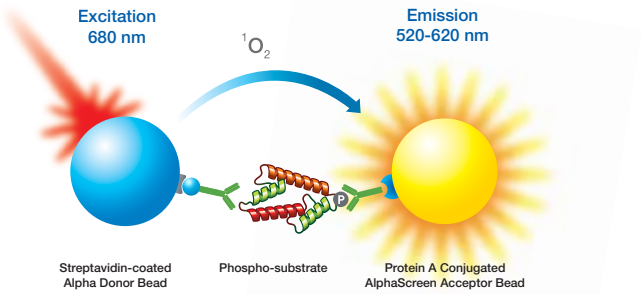
PerkinElmer's AlphaScreen® technology enables you to overcome the limitations of ELISA and western blotting. It enables the highly sensitive and precise interrogation of various signaling pathways, receptors and kinase targets, and the measurement of full-length, endogenous protein phosphorylation in a cell-based format.

Now it's possible to culture cells and detect key analytes using an "all-in-one" format. Alternatively, cells can be used in multiple assays analyzing pathways or allowing for kinase profiling. This eliminates time-consuming separation and wash steps.

Simply Remarkable Advantages

- Facilitates research—more in-depth knowledge of potential lead compounds and cellular targets
- Saves money—extremely low enzyme/substrate/antibody consumption
- Saves time—no wash steps to slow your research

AlphaScreen® *SureFire*® Technology



AlphaScreen® *SureFire*® kits are used in conjunction with AlphaScreen Protein A kits, which include the streptavidin-coated Alpha Donor bead and the Protein A-coated Acceptor bead.

More information available at www.perkinelmer.com/alphatech.

MAKE BETTER RESOLUTION YOUR ULTIMATE DESTINATION

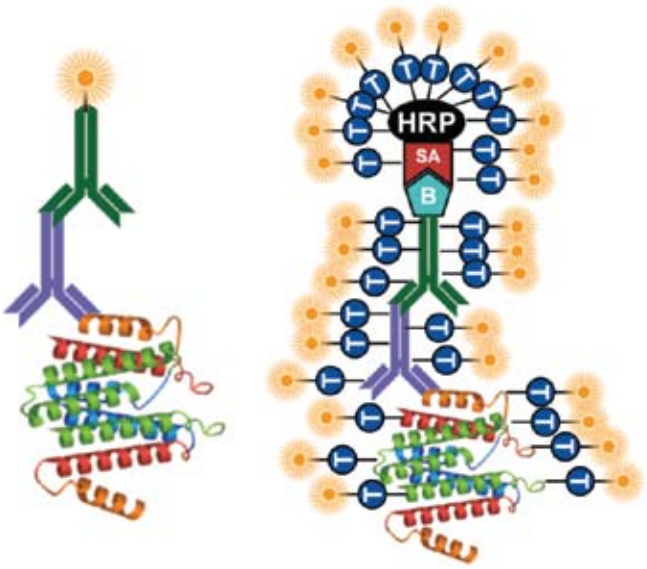
PerkinElmer's Tyramide Signal Amplification (TSA™) kits provide extraordinary sensitivity and resolution, enabling you to see previously undetectable levels of protein and nucleic acid. And with multi-target detection, you can get more information from each experiment. TSA makes it easy to gain valuable insight from your immunohistochemistry and immunocytochemistry results.

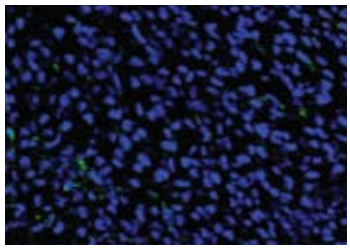
The Advantages Are Easy to See

- Achieve 100-1000-fold higher sensitivity
- Get outstanding resolution and clarity
- Improve specificity and reduce background
- Works well with any assay where HRP can be introduced
- Widely referenced for
  - Immunocytochemistry
  - Immunohistochemistry
  - In situ hybridization

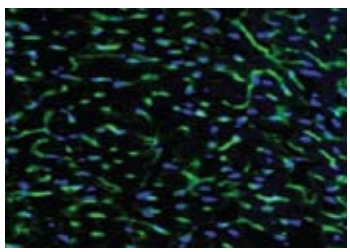
Comparison of TSA detection with standard detection

Standard Detection **TSA Detection**





Standard IHC with Anti-CD31 dilution 1:100, secondary antibody fluorophore labeled and counterstained with DAPI.



TSA IHC with Anti-CD31 dilution 1:100, fluorescent detection (fluorescein) and counterstained with DAPI.

Images of mouse embryo heart tissue courtesy of Bin Zhao, Harvard Stem Cell Institute.

More information available at www.perkinelmer.com/tsa.

ORDERING INFORMATION

Chemiluminescence Substrates

Product Description	Product Information	Size	Part Number
Western Lightning *Ultra* Extreme-sensitivity Chemiluminescence Substrate	For detection of HRP on PVDF or nitrocellulose, up to 200 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 1,100 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 2,200 cm^2	2 bottles (10 mL each) 2 bottles (55 mL each) 2 bottles (110 mL each)	NEL111001EA NEL112001EA NEL113001EA
Western Lightning *Plus* High-sensitivity Chemiluminescence Substrate	For detection of HRP on PVDF or nitrocellulose, up to 230 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 1,000 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 2,500 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 5,000 cm^2	2 bottles (15 mL each) 2 bottles (65 mL each) 2 bottles (170 mL each) 4 bottles (170 mL each)	NEL103E001EA NEL103001EA NEL104001EA NEL105001EA
Western Lightning ECL Standard-sensitivity Chemiluminescence Substrate	For detection of HRP on PVDF or nitrocellulose, up to 1,000 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 2,500 cm^2 For detection of HRP on PVDF or nitrocellulose, up to 5,000 cm^2	2 bottles (65 mL each) 2 bottles (170 mL each) 4 bottles (170 mL each)	NEL100001EA NEL101001EA NEL102001EA
Western Lightning™ CDP-*Star*® Chemiluminescence Reagent	Detection of alkaline phosphatase on PVDF membranes for up to 5,000 cm^2 of membrane	1 bottle (125 mL)	NEL602001KT
Western Lightning™ CDP-*Star*® with Nitro-Block II Enhancer	Detection of alkaline phosphatase on nitrocellulose or PVDF membranes for 2,000 to 12,500 cm^2 of membrane	1 bottle (100 mL)	NEL616001KT

Amplified Chromogenic Detection

Product Description	Product Information	Size	Part Number
Western BLAST	Signal amplification for sensitive chromogenic western blotting. Complete kit includes blocking reagent, amplification reagent, SA-HRP and diluent.	2,500 cm^2 500 cm^2	NEL761001KT NEL761A001KT

Chromogenic Substrates

Product Description	Product Information	Size	Part Number
4CN *Plus* Chromogenic Substrate	Detection of HRP, for up to 3,000 cm^2 of membrane	15 mL of substrate, 75 mL of 10X diluent	NEL300001EA
BCIP/NBT Substrate	Detection of phosphatase, for up to 2,000 cm^2 of membrane	2 x 250 mL	NEL937001PK
DAB Substrate	For detection of HRP in blotting and slide applications	10 mL	NEL938001EA

Protein Molecular Weight Markers

Product Description	Product Information	Size	Part Number
Multicolored Protein Markers	For about 100 minigel lanes	500 µl	NEL316001EA
[Methyl-^{14}C] Protein Molecular Weight Markers		1 µCi (37 kBq) 5 µCi (185 kBq)	NEC811001UC NEC811005UC
Biotinylated Molecular Weight Markers	For about 50 minigel lanes	50 µl (20X)	NEL310001EA

Blocking Reagent

Product Description	Product Information	Size	Part Number
BLAST Blocking Reagent	For up to 2,500 cm^2 of membrane	5 g	FP1063

HRP Conjugates

Product Description	Product Information	Size	Part Number
Anti-rabbit IgG (goat) HRP	Solution	1 mg, 1 mg/mL	NEF812001EA
Anti-mouse IgG (goat) HRP	Solution	1 mg, 1 mg/mL	NEF822001EA
Anti-human IgG (goat) HRP	Solution	1 mg, 1 mg/mL	NEF802001EA
Anti-DNP-HRP			FP1128
Anti-fluorescein-HRP			NEF710001EA

AP Conjugates

Product Description	Product Information	Size	Part Number
Anti-rabbit IgG (goat) AP	Solution	1 mg, 1 mg/mL	NEF814001EA
Anti-mouse IgG (goat) AP	Solution	1 mg, 1 mg/mL	NEF824001EA

Biotin Conjugates

Product Description	Product Information	Size	Part Number
Anti-rabbit IgG (goat) Biotin	Lyophilized	0.5 mg	NEF813001EA
Anti-mouse IgG (goat) Biotin	Lyophilized	0.5 mg	NEF823001EA
Anti-human IgG (goat) Biotin	Lyophilized	0.5 mg	NEF803001EA

Labeled Streptavidin

Product Description	Part Number
Streptavidin Fluorescein	NEL720001EA
Streptavidin Texas Red®	NEL721001EA
Streptavidin Coumarin	NEL722001EA
Streptavidin-HRP	NEL750001EA
Streptavidin-AP	NEL751001EA

Radiometric Detection Products

Product Description	Product Information		Part Number
Protein A, [^{125}I]-, (human, recombinant) 70-100 µCi (2.59-3.7 MBq)/µg	Packaged in phosphate buffer (pH 4.0) containing 35% ethanol	10 µCi (370 kBq) 25 µCi (925 kBq)	NEX146010UC NEX146025UC
Protein A, [^{125}I]-, (human, recombinant) 70-100 µCi (2.59-3.7 MBq)/µg	Packaged in phosphate buffer (pH 4.0) containing 35% ethanol	100 µCi (3.7 MBq) 250 µCi (9.25 MBq)	NEX146L100UC NEX146L250UC
Protein G, [^{125}I]-, Bolton-Hunter labeled, (recombinant) 15-25 µCi (555-925 MBq)/µg	Packaged in sodium phosphate-buffered saline (pH 5.2) containing glycine and BSA	10 µCi (370 kBq) 50 µCi (1.85 MBq) 100 µCi (3.7 MBq)	NEX237010UC NEX237050UC NEX237100UC

Transfer Membranes

Product Description	Product Information	Part Number
PolyScreen PVDF Hybridization Transfer Membrane	26.5 cm x 3.75 m roll 10 (20 x 20 cm) sheets 50 (7 x 8.4 cm) sheets (for mini-gels)	NEF1002001PK NEF1000001PK NEF1003001PK
Protran® Nitrocellulose (0.2 µm pore size)	30 cm x 3.5 m roll 5 (33 x 56 cm) sheets	NBA083C001EA NBA083G001EA
Protran® Nitrocellulose (0.45 µm pore size)	15 cm x 3 m roll 20 cm x 3 m roll 30 cm x 3.5 m roll 5 (33 x 56 cm) sheets	NBA085A001EA NBA085B001EA NBA085C001EA NBA085G001EA

Autoradiography Film

Product Description	Product Information	Size	Part Number
BioMax® Light-1 Autoradiography Film	13 x 18 cm (5 x 7 in.) 18 x 24 cm (7 x 9.5 in.) 20.3 x 25.4 cm (8 x 10 in.)	50 sheets, non-interleaved packaging 50 sheets, non-interleaved packaging 50 sheets, non-interleaved packaging	8689358001EA 8194540001EA 1788207001EA
BioMax® Light-2 Autoradiography Film	20.3 x 25.4 cm (8 x 10 in.)	50-sheet ReadyPack; each sheet individually wrapped	8761520001EA
X-OMAT® Blue (XB) Film	13 x 18 cm (5 x 7 in.) 18 x 24 cm (7 x 9.5 in.) 20.3 x 25.4 cm (8 x 10 in.) 35 x 43 cm (14 x 17 in.)	100 sheets, non-interleaved packaging 100 sheets, non-interleaved packaging 100 sheets, non-interleaved packaging 100 sheets, non-interleaved packaging	NEF586001EA NEF585001EA NEF596001EA NEF595001EA
BioMax® XAR Film	13 x 18 cm (5 x 7 in.) 18 x 24 cm (7 x 9.5 in.) 20.3 x 25.4 cm (8 x 10 in.) 24 x 30 cm (9.5 x 11.8 in.) 35 x 43 cm (14 x 17 in.) 20.3 x 25.4 cm (8 x 10 in.)	50 sheets, non-interleaved packaging 50 sheets, non-interleaved packaging 50 sheets, non-interleaved packaging 50 sheets, non-interleaved packaging 50 sheets, non-interleaved packaging 50-sheet ReadyPack; each sheet individually wrapped	1651496001EA 8532665001EA 1651454001EA 1501451001EA 1651512001EA 1651579001EA
BioMax® TranScreen™ HE	20.3 x 25.4 cm (8 x 10 in.)	One screen	8563959001EA

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