

HUMAN HEALTH

ENVIRONMENTAL HEALTH

RUN ON TIME WITH RELIABLE WESTERN BLOTTING PERFORMANCE

Western blotting is the most widely used technique for detecting specific proteins. PerkinElmer offers a wide range of western blotting solutions, including our 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.

Western Lightning Selection Guide

PRODUCT	WESTERN LIGHTNING <i>PLUS</i> ECL	WESTERN LIGHTNING ECL PRO	WESTERN LIGHTNING ULTRA
Overview	Improved sensitivity, low background and direct method transfer.	Maximum signal life and broad dynamic range.	Highest sensitivity. Use less primary antibody and sample.
Detection limit	~1 picogram	<1 picogram	low femtogram
Signal duration	>2 hrs.	>12 hrs.	>8 hrs.
Recommended detection method	CCD imaging systems or scientific film	CCD imaging systems or scientific film	CCD imaging systems or scientific film
Recommended primary antibody dilution (starting at 1 mg/ml)	1:500 - 1:5,000	1:500 to 1:5,000	1:5,000 - 1:100,000
Recommended secondary antibody dilution (starting at 1 mg/ml)	1:1,000 - 1:20,000	1:50,000 - 1:100,000	1:100,000 - 1:500,000
Working solution stability	8 hrs. at RT	>24 hrs. at RT	8 hrs. at RT
Recommended transfer membrane	PolyScreen® PVDF or Protran® Nitrocellulose	PolyScreen PVDF or Protran Nitrocellulose	PolyScreen PVDF or Protran Nitrocellulose

Western Lightning Plus ECL

Western Lightning Plus ECL is an enhanced chemiluminescence HRP substrate for western blotting. It provides picogram level sensitivity with low background.

- Twice the sensitivity of standard ECL substrates
- Direct protocol transfer from standard ECL products
- Low background
- Delivers good results with PVDF and nitrocellulose
- 2-hour signal life for film or CCD imaging systems

Western Lightning Ultra

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

- 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 ECL Pro

Western Lightning ECL Pro is a luminol-based enhanced chemiluminescence (ECL) HRP substrate for western blotting that provides very stable light output and low background.

- > 12-hour signal life for repeated exposures on CCD imagers or film
- Sub-picogram sensitivity
- Broad dynamic range assures quantitative signal regardless of protein expression level
- Works well with PVDF and nitrocellulose
- Non-toxic: no MSDS required
- Room temperature stable for at least one year

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 Pro Standard-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)	NEL120E001EA NEL12001EA NEL121001EA NEL122001EA
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

Transfer Membranes

PolyScreen PVDF Hybridization Transfer Membrane 0.45 µm	26.5 cm x 3.75 m roll 10 (20 x 20 cm) sheets		NEF1002001PK NEF1000001PK
PolyScreen 2 PVDF Hybridization Transfer Membrane 0.2 µm	26.5 cm x 300 cm roll		NEF1005001PK
Protran Nitrocellulose (0.2 µm pore size)	30 cm x 3.5 m roll 5 (33 x 56 cm) sheets 1 (15 cm x 15 cm) sheet		NBA083C001EA NBA083G001EA NBA083S001EA
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 1 (15 cm x 15 cm) sheet		NBA085A001EA NBA085B001EA NBA085C001EA NBA085G001EA NBA085S001EA

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