

WesternBright® Quantum®

Quantitative, sensitive chemiluminescent Western blotting for CCD imagers

WesternBright Quantum is specially designed for sensitive chemiluminescent detection on CCD-based systems. It provides the fastest, most sensitive, most quantitative chemiluminescent Western blots.

Features

- **SENSITIVE** – detect attomoles of protein per band.
- **QUANTITATIVE** – linear range of signal with respect to protein amount exceeds 3 orders of magnitude.
- **LOW BACKGROUND** – for high signal to noise.
- **LONG LASTING SIGNAL** – image blots hours after substrate incubation.
- **VERSATILE** – Optimized for CCD imaging, and compatible with film detection.

Ordering Information

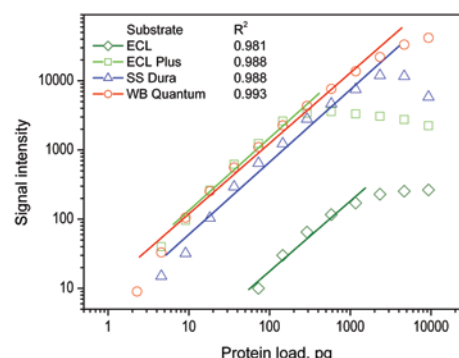
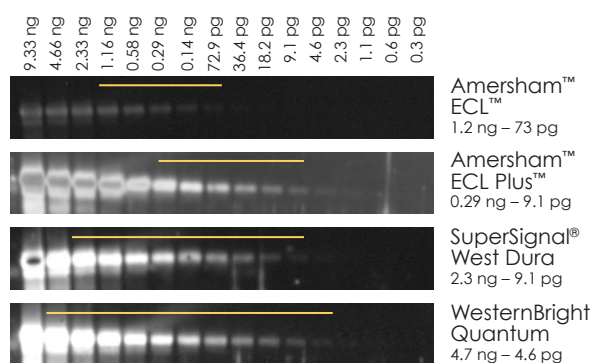
Catalog Number	Product	Size
K-12042-C20	WesternBright® Quantum® Western Blotting HRP Substrate Trial kit size	20 ml
K-12042-D10	WesternBright® Quantum® Western Blotting HRP Substrate (for 1000 cm ² membrane)	100 ml
K-12042-D20	WesternBright® Quantum® Western Blotting HRP Substrate (for 2000 cm ² membrane)	200 ml

Related Products

L-07014-100	LucentBlue™ X-ray film	100 sheets
R-03024-D50	AdvanWash™ 10x washing solution	500 ml
R-05072-500	Goat-anti-rabbit HRP-conjugated secondary antibody	500 µl
R-05071-500	Goat-anti-mouse HRP-conjugated secondary antibody	500 µl
L-08001-010	Low-Fluorescence PVDF Transfer Membrane 7x9 cm	10 sheets
L-08002-010	Nitrocellulose Transfer Membrane 0.45 µm 7x9 cm	10 sheets
L-08003-010	Nitrocellulose Transfer Membrane 0.22 µm 7x9 cm	10 sheets

Advansta Corporation

Highest sensitivity, greatest linear range



Linear dynamic range of WesternBright Quantum.

Identical Western blots containing serial dilutions of transferrin were probed with a rabbit-anti-transferrin primary antibody, and a goat-anti-rabbit secondary antibody conjugated to horseradish peroxidase. The blots were incubated with chemiluminescent substrates as recommended by each manufacturer. All blots were simultaneously imaged for 2 minutes on a CCD imager; and display parameters are identical across all images shown. Band intensities were plotted and a best fit linear regression conducted for each substrate. WesternBright Quantum shows the largest dynamic range out of all four substrates with the highest R² value. Bands that fall on the linear part of the curve for each substrate are indicated on the image.

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