WesternBright™ Sirius

Most sensitive substrate for chemiluminscent and chemifluorescent Western blotting



WesternBright Sirius is the most sensitive HRP substrate available from Advansta for chemiluminescent Western blotting. With attomolar sensitivity and a long-lasting signal, WesternBright Sirius allows you to detect bands not visualized with other substrates. High signal-to-noise and a large dynamic range make it ideal for quantifying low-intensity bands. And, chemifluorescence emission allows WesternBright Sirius to be imaged by fluorescence imagers in addition to traditional CCD imagers and film.

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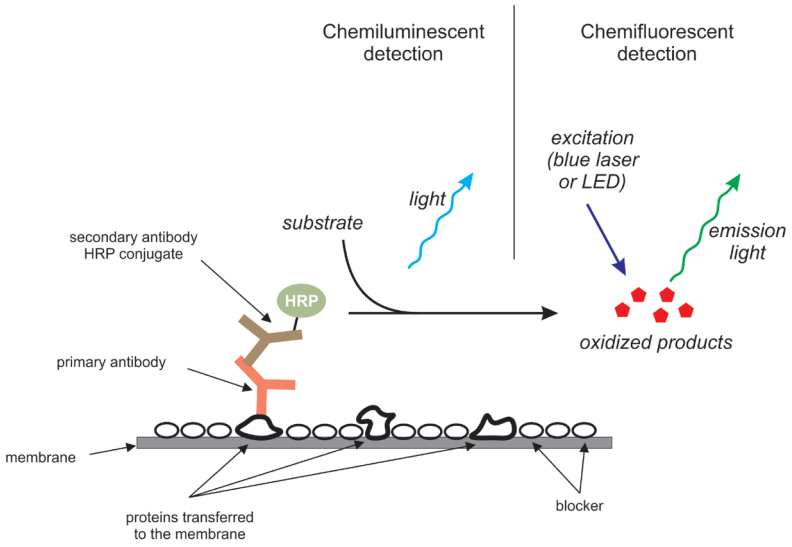
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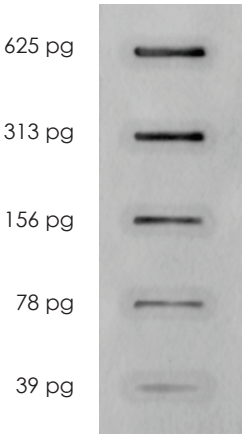
WesternBright Sirius allows you to detect low-abundance proteins, with a strong, long-lasting and quantitative signal.

Chemiluminscent and chemifluorescent detection

WesternBright Sirius is the most sensitive chemiluminescent HRP substrate offered by Advansta, specially engineered to produce an extremely strong signal to detect low-abundance proteins and to work with very low antibody concentrations. The substrate also produces a strong chemifluorescent signal that can be detected with fluroescence imagers.



Sensitive chemifluorescent detection



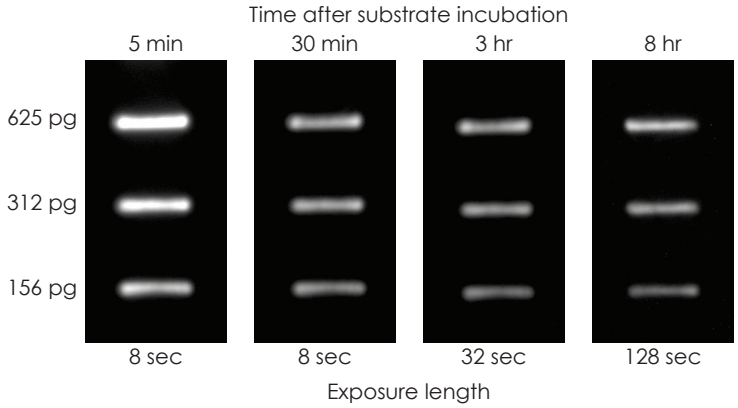
WesternBright Sirius provides imaging flexibility, with emitted light that can be detected using fluorescent imaging systems in addition to film and CCD based systems. A slot blot containing serial dilutions of an HRP-labeled secondary antibody was detected with WesternBright Sirius, and chemifluorescence imaged using a Typhoon imager (GE Healthcare).

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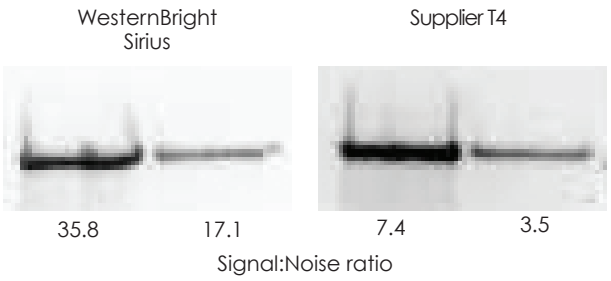
Image blots hours after substrate incubation

A slot blot containing a serial dilution of an HRP-conjugated antibody was incubated with WesternBright Sirius, and imaged at the times indicated. After 8 hours, the bands are still easily detected with only a 2 minute exposure.



Low background for better band quantification

WesternBright Sirius provides sensitive detection combined with extremely low background. Duplicate Western blots were conducted to analyze samples of plasma, diluted either 1:100 (left lanes) or 1:600 (right lanes) in PBS. The blots were probed with a goat antisera primary antibody, and an HRP-conjugated secondary antibody. After detection with either WesternBright Sirius or substrate of supplier T4, the blots were imaged for 8.3 minutes. The signal-to-noise ratio is shown for each band.





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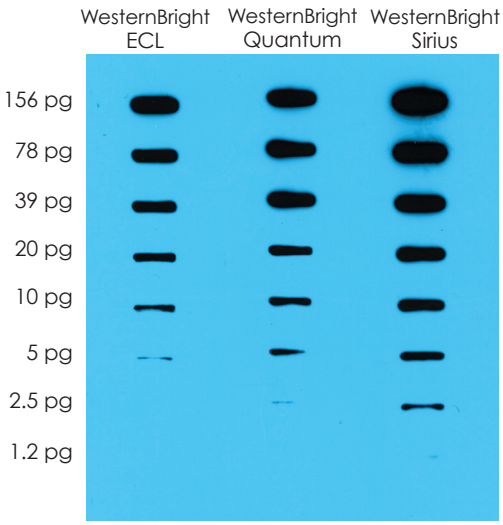
WesternBright Sirius is designed for sensitive detection and low antibody concentrations. With low background and a strong, long-lasting chemiluminscent and chemifluorescent signal, WesternBright Sirius is the best choice for quantifying low-abundance bands.

Features

- Detect low-abundance proteins
- Low background for high signal-to-noise ratio
- Long-lasting signal for flexible imaging
- Image chemiluminescence by CCD or film, image chemifluorescence with laser-based fluorescence imaging systems.



The highest sensitivity



Slot blots containing serial dilutions of an HRP-conjugated antibody were incubated with WesternBright ECL, WesternBright Quantum or WesternBright Sirius and detected with a 2-minute exposure to film.

Ordering Information

Catalog Number	Product	Size
541020	**WesternBright™ Sirius Western Blotting HRP Substrate (for 1000 cm² membrane)**	**100 ml**
541022	**WesternBright™ Sirius Western Blotting HRP Substrate (for 2000 cm² membrane)**	**200 ml**

Related Products

541032	Background Quenching Sheets	10 sheets
541091	LucentBlue™ X-ray film, 5 x 7" sheets	100 sheets
541090	LucentBlue™ X-ray film, 8 x 10" sheets	100 sheets
541040	Low-Fluorescence PVDF Transfer Membrane, 7 x 9 cm	10 sheets
541041	Nitrocellulose Transfer Membrane 0.45 µm, 8 x 10 cm	10 sheets
541042	Nitrocellulose Transfer Membrane 0.22 µm, 8 x 10 cm	10 sheets
541089	Goat-anti-mouse HRP-conjugated secondary antibody	500 µl
541088	Goat-anti-rabbit HRP-conjugated secondary antibody	500 µl

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