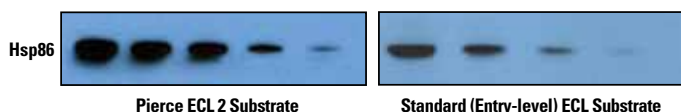


here's 2 performance!

Thermo Scientific Pierce ECL 2 Western Blotting Substrate

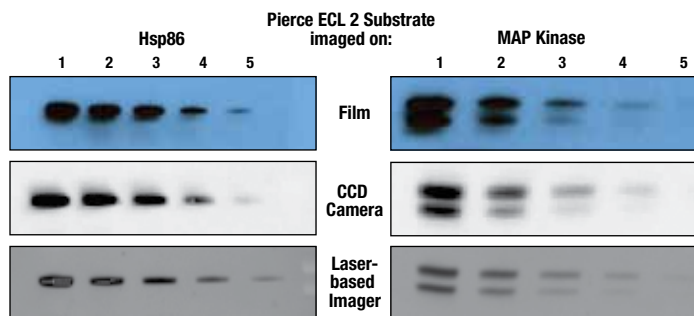
Switching made even easier. Plus you won't need to worry about re-optimizing your blots with a new substrate.

Thermo Scientific Pierce ECL 2 Substrate is acridan-based, generating acridinium esters when it reacts with HRP. As these ester intermediates react with peroxide, they produce strong and sustained chemiluminescence and a robust fluorescent signal at 440nm that can be captured by CCD and fluorescence imagers.



Thermo Scientific Pierce ECL 2 Substrate delivers the same performance you've come to expect. HeLa cell lysate was diluted in electrophoresis sample buffer and heated to 95°C for 5 minutes. **Lane 1** contained 10µg of total

protein. Four 1:1 dilutions were prepared and applied to **lanes 2-5** at 10µL/well. After electrophoresis, the proteins were transferred to nitrocellulose membranes (Product # PI-88013). 5% milk in TBST was used as a blocking buffer. Rabbit Anti-Hsp86 (Product # PI-PA3-013) at 1:1000 dilution and Goat Anti-Rabbit HRP (Product # PI-31460) at 6.6ng/mL (1:150,000 dilution of 1mg/mL stock solution) were used for target detection. Blots were prepared using Thermo Scientific CL-XPosure Film (Product # PI-34090), Pierce ECL 2 Substrate (Product # PI-80196) or other indicated substrates.



One substrate detected with three methods: X-ray film, CCD imager and laser-based imager. HeLa cell lysate was diluted in electrophoresis sample buffer and heated to 95°C for 5 minutes. **Lane 1** contained 10µg of total protein. Four 1:1 dilutions were prepared and applied to **lanes 2-5** at 10µL/well. After electrophoresis, proteins were transferred to nitrocellulose membranes (Product # PI-88013). 5% milk in TBST was used as a blocking buffer. The membranes were incubated with Rabbit Anti-MAP Kinase (Millipore) or Rabbit Anti-Hsp86 (Product # PI-PA3-013) at 1:1000 dilution

and then with Goat Anti-Rabbit HRP (Product # PI-31460) at 6.6ng/mL (1:150,000 dilution of 1mg/mL stock solution). Pierce ECL 2 Substrate (Product # PI-80196) was used for detection. The membranes were exposed to CL-XPosure™ Film (Product # PI-34090) for five seconds and scanned using the Typhoon® 9410 Variable Mode Imager (Excitation at 457nm, Emission at 510nm) and Syngene® G:Box iChemXT Imager (1 minute exposure).

Ordering Information

Product #	Description	Pkg. Size
PI-80196	Pierce ECL 2 Western Blotting Substrate Sufficient reagents for 1,000cm ² of membrane or ten (10 x 10cm) blots. Detection Reagent A: 100mL, Detection Reagent B: 2.5mL	Kit
PI-80196X3	Pierce ECL 2 Western Blotting Substrate Sufficient reagents for 3,000cm ² of membrane or 30 (10 x 10cm) blots. Detection Reagent A: 3 x 100mL, Detection Reagent B: 3 x 2.5mL	Kit

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Pierce ECL 2 Substrate =
Traditional ECL Substrate performance

- + Fluorescence
- + Greater sensitivity
- + Competitive pricing

Highlights

- **High sensitivity** – detect targets down to the low-picogram level
- **Long signal duration** – sustained light output for as long as 5 hours
- **More imaging options** – X-ray, CCD or laser-based imagers
- **More affordable** – same quality and performance, but now more affordable

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