

Azure ChemiWriter ECL

Chemiluminescent pen for blot annotation

Short Protocol for Catalog Number

AC2146 Azure ChemiWriter ECL

Description

Write or draw on your chemiluminescent Western blots with the Azure ChemiWriter ECL. The reagent in the ChemiWriter reacts with HRP substrates to produce a chemiluminescent signal that can be detected with film or by CCD imaging. With the proprietary “ink” you can make pre-stained protein standards chemiluminescent, annotate your blot with a date or blot number, or check the quality of your HRP substrates.

Short Protocol

1. Run an SDS-PAGE gel using any standard technique.
2. Transfer proteins from the gel to PVDF or nitrocellulose membrane using any standard protocol (wet transfer, dry transfer, or semi-dry transfer).
3. For easier annotation, let the membrane dry for 5 to 10 min before using the Azure ChemiWriter ECL.
4. Open the cap of the ChemiWriter and annotate the blot. The blue ink allows you to see the markings made on the blot and will not interfere with Western blotting or downstream applications.

Short Protocol continued

5. Once the blot is annotated follow any standard Western blotting procedure.
6. To detect the markings made by Azure ChemiWriter ECL and HRP-labeled proteins on the blot, incubate the blot with your chemiluminescent HRP substrate such as Azure Radiance or Radiance Plus per manufacturer instructions.
7. Drain excess reagent.
8. Cover damp blot with plastic wrap and expose to X-ray film. The signal can also be detected using a CCD camera-based gel documentation system.

Tips

- The ChemiWriter ink contains a reagent that reacts with HRP substrates to produce chemiluminescence and also a blue dye to allow you to see markings as you write on the blot.
- There are two heads to the pen, a fine point tip and a thicker chisel point tip. We recommend using the fine point tip to annotate the blot and mark protein ladders for detection.
- The chisel point of the pen can be used to deposit an increased amount of reagent on the blot for more intense signal.
- For best results we recommend annotating your blot after transfer and before starting your Western blotting protocol.
- Once annotated, the blot may be stored dry or wet, refrigerated or at room temperature. The Azure ChemiWriter ECL reagent and blue ink markings on the blot are stable for at least 3 months.
- The ChemiWriter should be stored tightly closed at room temperature.