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DATASHEET

SuperBlot™ ECL Western Blotting Substrate Kit (Standard)

Product overview

Name SuperBlot™ ECL Western Blotting Substrate Kit (Standard)
Cat No HB7090
Biological description

Overview

Hello Bio SuperBlot™ ECL Western Blotting Substrate Kit (Standard) is an enhanced chemiluminescent (ECL) substrate suitable for Western blotting of loading controls and high abundance proteins with horseradish peroxidase (HRP) conjugated secondary antibodies.

Key Features

Sensitivity: Equivalent to Pierce™ ECL Western Blotting Substrate
Stability: 1 year at 4°C
Compatability: Ideal for film and digital imaging. Compatible with PVDF and nitrocellulose membranes and all blocking solutions, primary and secondary antibodies.

SuperBlot™ ECL Western Blotting Substrate Kit (Standard) is a highly cost effective solution for developing day to day Western blots and to produce publication quality images.

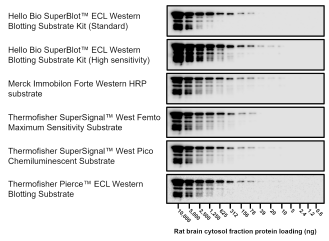
Notes

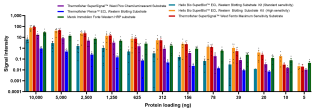
We recommend:

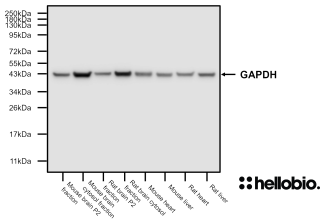
- 100ml (50ml part A + 50ml part B) for developing around 65 blots of 10x7.5cm size (≈5,000cm^2 of membrane)
- 200ml (100ml part A + 100ml part B) for developing around 130 blots of 10x7.5cm size (≈10,000cm^2 of membrane)
- 500ml (250ml part A + 250ml part B) for developing around 330 blots of 10x7.5cm size (≈25,000cm^2 of membrane)

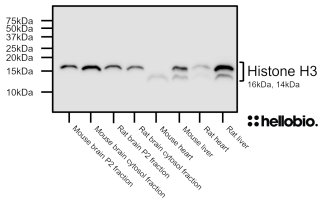
Applications WB
Description Standard sensitivity ECL solution for developing chemiluminescent Western blots

Images









Biological Data

Application notes

Protocol for Chemiluminescent blot development with ECL

Digital Imaging

1. Remove blot from the final wash solution and place on an imaging tray
2. Mix equal quantities of part A and part B solutions being careful not to contaminate solutions by changing pipette tips

    1. For a 10x7.5cm gel we recommend 750µl of each solution
3. Add combined solutions to the blot making sure to cover the entire area.
4. Cover blot with a clear transparent sheet of plastic to prevent evaporation then immediately image.
    1. Be careful to not introduce any bubbles as these will show up in the final image.

Film Imaging

1. Mix equal quantities of part A and part B solutions being careful not to contaminate solutions by changing pipette tips.
    1. For a 10x7.5cm gel we recommend 750µl of each solution
2. Add combined solutions to a sheet of cling film large enough to fit the blot.
3. Remove the blot from the final wash buffer, dab off any excess then place into the ECL solution. Use tweezers move the blot in order to soak it in ECL making sure to cover each side thoroughly.
4. Dab off any excess ECL with filter paper then place into a pocket of clear plastic within a X-ray imaging cassette.
    1. Be careful to not introduce any bubbles as these will show up in the final image.
5. Move to a dark room.
6. Cut a piece of X-ray film to size then tape to the opposing door of the cassette. Close the cassette in one clean motion so that the film and blot are now in contact.
7. Expose the film for an appropriate amount of time.
    1. This will vary depending on the target protein and which primary and secondary antibodies are used.
8. Open the cassette and develop the film.

Solubility & Handling

Storage instructions	+4°C (protect from light)
Storage buffer	Contains 0.05% ProClin-300
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.