

## Tips

- Western blotting requires optimization of primary and secondary antibody concentrations. These must be determined empirically for every antigen-antibody pair.
- OneBlock™ Western-CL increases sensitivity, so optimal antibody concentrations may be lower than with other blocking buffers.
- For film detection, use antibody concentrations 2-5 fold lower than for CCD imaging.
- Make sure not to touch the membrane with fingers or dirty forceps as this can result in non-specific background.



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## **OneBlock<sup>™</sup> Western-CL Blocking Buffer**

Antibody-antigen signal enhancing and blocking solution for chemiluminescent Western Blots

**For Catalog Numbers**

**Cat # 20-313**

OneBlock<sup>™</sup> Western-CL, 1L

# OneBlock™ Western-CL Blocking Buffer

## Description

OneBlock™ Western-CL is a novel blocking solution, optimized to enhance specific antibody-antigen interactions for chemiluminescent Western Blots. This all-in-one blocking and antibody incubation solution is designed to improve sensitivity and decrease overall background. Non-specific binding caused by low quality antibodies is reduced while signal from the specific antibody-antigen complex is stabilized and enhanced. Provided as a convenient ready-to-use solution intended to directly replace other commonly used blocking buffers for Western Blotting.

## Storage Information

The OneBlock™ Western-CL reagent is stable at 4°C for at least one year.

## Warnings and Precautions

- OneBlock™ Western-CL is for research use only.
- Always wear gloves when handling reagents.
- Refer to MSDS for additional safety information.
- The product is guaranteed to be free of manufacturer defects, and to function as described when the enclosed protocol is followed by properly trained personnel.

## Short Protocol

### Steps

1. Prepare your protein blot on either PVDF or nitrocellulose using your standard technique.

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2. Block the membrane for one hour at ambient temperature with gentle agitation using a sufficient volume of buffer to completely cover the membrane.

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3. Incubate the blot with the primary antibody diluted in blocking solution for one hour at ambient temperature with gentle agitation.

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4. Wash the blot with washing solution, PBST or TBST:
  - 2 x quickly (~5 seconds per rinse)
  - 3 x 5 minutes, with at least 0.3 mL/cm<sup>2</sup> membrane each time

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5. Incubate the blot with the secondary antibody diluted in blocking solution for one hour at ambient temperature with gentle agitation.

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6. Wash the blot with washing solution, PBST or TBST:
  - 2 x quickly (~5 seconds per rinse)
  - 3 x 5 minutes, with at least 0.3 mL/cm<sup>2</sup> membrane each time

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7. During the final washing step, prepare a working solution of chemiluminescent substrate.

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8. Thoroughly drain all wash solution from the blot then apply the working solution of the chemiluminescent reagent to the blot (use 0.1 mL/cm<sup>2</sup> of your membrane). Incubate the blot with the reagent for 5 minutes.

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9. Drain excess substrate and place the blot in your CCD imager and image. If a long exposure is required or if imaging will be performed using X-ray film, place the blot in a blot development folder for best results.

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