

# Blocker™ FL Fluorescent Blocking Buffer (10X)

Catalog Number 37565

Doc. Part No. 2160627 Pub. No. MAN0017084 Rev. B.0

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](https://www.thermofisher.com/support).

## Product description

Thermo Scientific™ Blocker™ FL Fluorescent Blocking Buffer (10X) is a single purified protein for blocking excess nonspecific binding sites to reduce background fluorescence in western blotting applications when used with nitrocellulose and PVDF membranes. This blocking buffer is ideal for fluorescent protein detection by providing lower background in blotting applications where background fluorescence may otherwise interfere with signal detection. The blocking solution is also compatible with chemiluminescent detection. Blocker™ FL Fluorescent Blocking Buffer (10X) can be used for blocking of cells or tissue in fluorescence imaging.

## Contents and storage

| Product                                       | Cat. No. | Amount | Storage |
|---|----------|--------|---------|
| Blocker™ FL Fluorescent Blocking Buffer (10X) | 37565    | 100 mL | 4°C     |

## Procedural guidelines

- Blocker™ FL Blocking Buffer may be used at higher or more dilute concentrations. For best results, empirically determine the optimal concentration to use.

## Block western blots

- Prepare blocking buffer working reagent by adding 1 part Blocker™ FL Fluorescent Blocking Buffer (10X) to 9 parts ultrapure water. Prepare sufficient volume of working reagent to completely cover the membrane.
- After the protein transfer, remove the membrane from the transfer apparatus, then wash in deionized water for 5 minutes, using agitation to remove all transfer buffer.
- Add sufficient Blocker™ FL Fluorescent working reagent to cover the membrane.
- Incubate 15-30 minutes at room temperature with shaking.
- Continue with the western blotting procedure that is appropriate for your downstream detection.

## Related products

**Table 1 Blocking buffers for western blotting**

| Select when   | Product  | Blocking agent                                  | Highlights  | Available formats          |
|---|--|---|---|----------------------------|
| Optimizing a new western blot system or high background with current blocking buffer      | <b>StartingBlock™ Blocking Buffer</b>          | Serum- and biotin-free, single purified protein | <ul style="list-style-type: none"> <li>Performs well with a wide range of antibodies and antibody combinations</li> <li>Compatible with streptavidin systems</li> <li>Blocks in less than 15 minutes</li> </ul> | PBS<br>TBS<br>PBST<br>TBST |
| Use when high background or antigen-antibody masking occurring with non-fat milk blockers | <b>Blocker™ Casein</b>                         | Purified casein                                 | <ul style="list-style-type: none"> <li>Single purified protein blocking buffer provides fewer chances of cross-reaction with assay components than serum or milk solutions</li> </ul>                           | PBS<br>TBS                 |
| Fluorescent western blotting  | <b>Blocker™ FL Fluorescent Blocking Buffer</b> | Single purified protein                         | <ul style="list-style-type: none"> <li>Blocks excess nonspecific sites to help reduce background fluorescence</li> <li>Detergent-free</li> <li>Blocks in 15-30 minutes</li> </ul>                               | 10X concentrate            |

**Table 2 Additional products**

| Products                                  | Learn more  |
|---|---|
| Western blotting reagents and accessories | <a href="https://www.thermofisher.com/westernblot">thermofisher.com/westernblot</a>       |
| Western blot imaging and analysis         | <a href="https://www.thermofisher.com/westernimaging">thermofisher.com/westernimaging</a> |

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For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](https://www.thermofisher.com/symbols-definition).

The information in this guide is subject to change without notice.

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**Revision history:** Pub. No. MAN0017084

| Revision | Date              | Description    |
|----------|-------------------|----------------|
| B.0      | 17 September 2021 | Updated format |
| A.0      | 20 June 2017      | New document   |

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