

# SuperBlock™ Blocking Buffer-Blotting

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**37517 37537**

| Number | Description   |
|--------|---|
| 37517  | <b>SuperBlock Blocking Buffer-Blotting in PBS</b> , 1L, proprietary protein formulation in phosphate buffer, containing Kathon™ Antimicrobial Agent; pH 7.4 |
| 37537  | <b>SuperBlock Blocking Buffer-Blotting in TBS</b> , 1L, proprietary protein formulation in phosphate buffer, containing Kathon Antimicrobial Agent; pH 7.4  |

**Storage:** Upon receipt store product at 4°C. Product is shipped at ambient temperature.

## Introduction

The Thermo Scientific SuperBlock Blocking Buffer-Blotting contains a proprietary non-relevant protein for blocking excess binding sites in immunohistochemistry and Western blotting applications. This blocking buffer has been optimized for use with precipitating substrates and yields a high signal-to-noise ratio in most applications. Additionally, this blocking buffer does not contain albumin or endogenous biotin and, therefore, may be used with avidin/streptavidin systems.

## Important Product Information

- This blocking buffer is formulated for precipitating enzyme substrates. Do not use SuperBlock Blocking Buffer-Blotting for chemiluminescent or plate-based assays, as increased background will result. Instead, use the appropriate SuperBlock Blocking Buffer for the specific assay, such as SuperBlock Blocking Buffer in PBS or TBS (Product No. 37515, 37535).
- Because no blocking reagent is optimal for all systems, empirical testing is essential to determine the appropriate blocking buffer for each Western blot system. Determining the proper blocking buffer can increase sensitivity and prevent nonspecific signal caused by cross-reactivity between the antibody and the blocking reagent.
- Use SuperBlock Blocking Buffer-Blotting as supplied. However, other buffer concentrations may be beneficial for specific systems.
- A final concentration of 0.05% Tween™-20 Detergent added to the SuperBlock Blocking Buffer may improve blocking; however, it is not required nor recommended for all systems. Use only high-quality products such as Thermo Scientific Surfact-Amps-20 (Product No. 28320), which is a specially purified Tween-20 Detergent that is free of peroxides and carbonyls that may interfere in some systems.
- The SuperBlock Blocking Buffer diluted 10-fold and containing 0.05% Tween-20 Detergent may be used as a diluent for antibodies to improve signal-to-noise ratios.

## Example Procedure for Blocking Western Blots

1. Remove blot from the transfer unit.
2. Use a sufficient volume of blocking buffer to completely cover blot. Using large volumes of blocking and wash buffer often reduces nonspecific signal.
3. Incubate for approximately 10 minutes with agitation.
4. Remove the blocking buffer and continue Western blot procedure.

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## Additional Information Available on Our Website

- Tech Tip #24: Optimize antigen and antibody concentrations for Western blots
- Tech Tip #32: Guide to enzyme substrates for Western blotting
- Tech Tip #33: Guide to enzyme substrates for ELISA
- Tech Tip #16: Block endogenous biotin

## Related Products

For a complete selection of high quality reagents for Western blotting and immunohistochemistry, including a wide variety of substrates and secondary antibodies for detection, please refer to our catalog or web site.

|                   |   |
|-------------------|---|
| <b>28376</b>      | <b>BupH™ Tris Buffered Saline Packs, 40 packs</b>   |
| <b>28372</b>      | <b>BupH Phosphate Buffered Saline Packs, 40 packs</b>   |
| <b>NW04120BOX</b> | <b>Bolt™ Bis-Tris Plus protein gels</b> (see <a href="http://thermofisher.com/proteingels">thermofisher.com/proteingels</a> for a complete listing) |
| <b>88024</b>      | <b>Nitrocellulose Membrane, 0.2µm, 8cm × 8cm, 15/pkg</b>  |
| <b>88025</b>      | <b>Nitrocellulose Membrane, 0.45µm, 8cm × 8.5cm, 15/pkg</b>   |
| <b>77012</b>      | <b>Nitrocellulose Membrane, 0.2µm, 8cm × 12cm, 25/pkg</b>   |
| <b>77010</b>      | <b>Nitrocellulose Membrane, 0.45µm, 8cm × 12cm, 25/pkg</b>  |
| <b>88585</b>      | <b>PVDF (polyvinylidene difluoride) Membrane, 0.45µm, 10cm × 10cm, 10/pkg</b>   |
| <b>88518</b>      | <b>PVDF (polyvinylidene difluoride) Membrane, 0.45µm, 26.5cm × 3.75m, roll</b>  |
| <b>37515</b>      | <b>SuperBlock Blocking Buffer in PBS, 1L</b>  |
| <b>37535</b>      | <b>SuperBlock Blocking Buffer in TBS, 1L</b>  |

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Tween is a trademark of Croda International Plc.

For research use only. Not for use in diagnostic procedures.

This product ("Product") is warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation") and to be free from defects in material and workmanship. Unless otherwise expressly authorized in writing, Products are supplied for research use only. No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the original purchaser of the Product ("Buyer").

**No other warranties, express or implied, are granted, including without limitation, implied warranties of merchantability, fitness for any particular purpose, or non infringement. Buyer's exclusive remedy for non-conforming Products during the warranty period is limited to replacement of or refund for the non-conforming Product(s).**

There is no obligation to replace Products as the result of (i) accident, disaster or event of force majeure, (ii) misuse, fault or negligence of or by Buyer, (iii) use of the Products in a manner for which they were not designed, or (iv) improper storage and handling of the Products.

Current product instructions are available at [thermofisher.com](http://thermofisher.com). For a faxed copy, call 800-874-3723 or contact your local distributor.

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