# Blocking Buffer for Fluorescent Western Blotting - MB-070

**Code:** MB-070 **Size:** 500 mL

**Product Description:** Blocking Buffer for Fluorescent Western Blotting - MB-070

**Concentration:** 1X

**PhysicalState:** Liquid (sterile filtered)

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| **Label** | Unconjugated |
| **Buffer** | See application note. |
| **Preservative** | Thimerosal is added as an antimicrobial agent. |
| **Storage Condition** | Store Blocking Buffer at 4° C prior to opening. DO NOT FREEZE. |
| **Synonyms** | Multiplex Blocking Buffer, Fluorescent Blocking Buffer, Blocking Solution, Blocking Buffer Western Blot, IRDye Western Blot Blocking Buffer, Alexa Dye Blocking Buffer, DyLight Blocking Buffer |
| **Application Note** | Fluorescence technology is widely used to detect proteins in both the visible and near-infrared ranges. This product allows for superior signal detection and lower background noise when fluorochrome conjugated antibodies are used to visualize proteins in western blotting and other applications. Antibody conjugates prepared with IRDye® 800 and IRDye® 700DX (Licor), Cy2™, Cy3™, Cy3.5™, Cy5™ and Cy5.5™ (GE Healthcare), DyLight™405, DyLight™ 549, DyLight™ 649, DyLight™ 680, and DyLight™ 800 (Thermo Fisher/Pierce) and Alexa Fluor® 488, Alexa Fluor® 532, Alexa Fluor® 546, Alexa Fluor® 647 and Alexa Fluor® 680 (Invitrogen/Molecular Probes) have been validated on various platforms using this product with superior results compared to other commercially available products. In the infrared range, where little to no autofluorescence occurs, specific signal is sharply evident from any background giving the best possible signal-to-noise ratio. This allows for detection levels in the picogram range which rivals the sensitivity of chemiluminescence on film for western blotting. Superior results are also seen when this product is used for simultaneous labeling (multiplex) in western blots or microscopy using various fluorochrome combinations for multicolor imaging. Membranes blocked with this product can be dried and are very stable. Membranes that are stored protected from light can be re-washed and/or rescanned. |
| **Background** | Western Blot Blocking Solution is specifically designed for western blotting using fluorochrome conjugated antibodies. Pure nitrocellulose membrane is recommended for maximum performance. Other membranes, such as PVDF or nitrocellulose embedded in a support can be used, but may generate elevated backgrounds. Protein should be transferred from gel to membrane using standard protocols. Blocking buffer can be used for membrane blocking and to dilute both primary and secondary antibodies. Western Blot blocking buffer is suitable for use with fluorescent western blot imaging systems produced by Bio-Rad Laboratories, GE Healthcare, Alpha Innotech, FujiFilm Life Science, Licor Biosciences, UVP and Syngene. |
| **Purity And Specificity** | Blocking buffer was prepared using ultra pure reagents dissolved in pharmaceutical grade water (WFI) and consists of a proprietary protein formulation in TRIS buffered saline at pH 7.6 with thimerosal added as an antimicrobial agent. |
| **Assay Dilutions** | Optimum performance is achieved using this product undiluted. However, this blocking solution can often be diluted 1:1 in TBS without a significant loss of performance. |
| **Western Blot** | User Defined |
| **Other Assays** | Optimum performance is achieved using this product undiluted. However, this blocking solution can often be diluted 1:1 in TBS without a significant loss of performance. |
| **Expiration** | Expiration date is six (6) months from date of opening. |
| **General Reference** | - Epitopes of Naturally Acquired and Vaccine-Induced Anti-Ebola Virus Glycoprotein Antibodies in Single Amino Acid Resolution.;2020;Biotechnol J.;Heidepriem J. et al.<br><br>- Versicolorin A, a precursor in aflatoxins biosynthesis, is a food contaminant toxic for human intestinal cells.;2020;Environ Int.;Gauthier T. et al.<br><br>- Expression and Function of Mas-Related G Protein-Coupled Receptor D and Its Ligand Alamandine in Retina.;2020;Mol Neurobiol.;Zhu P. et al.<br><br>- A proteolytic C-terminal fragment of Nogo-A (reticulon-4A) is released in exosomes and potently inhibits axon regeneration.;2020;J Biol Chem.;Sekine Y, Lindborg JA, Strittmatter SM.<br><br>- The stress-responsive gene GDPGP1/mcp-1 regulates neuronal glycogen metabolism and survival.;2020;J Cell Biol.;Schulz A, Sekine Y, Oyeyemi MJ, et al. |

**Specific Reference**

Meilandt WJ, Ngu H, Gogineni A, et al. (2020) Trem2 Deletion Reduces Late-Stage Amyloid Plaque Accumulation, Elevates the A42:A40 Ratio, and Exacerbates Axonal Dystrophy and Dendritic Spine Loss in the PS2APP Alzheimer's Mouse Model. J Neurosci. 2020;40(9):19561974. PMID: 31980586 – DB.
Bannert K, Berlin P, Reiner J, et al. (2020) SNX27 regulates DRA activity and mediates its direct recycling by PDZ-interaction in early endosomes at the apical pole of Caco2 cells. Am J Physiol Gastrointest Liver Physiol. 2020;318(5):G854G869. PMID: 32116023 – WB.
Gordon, R; Hogan, CE; Neal, ML; Anantharam, V; Kanthasamy, AG; Kanthasamy , A. A simple magnetic separation method for high-yield isolation of pure primary microglia. Journal of Neuroscience Methods 194 (2011) 287–296

**Sterilization**

This product was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.

**Related Products**

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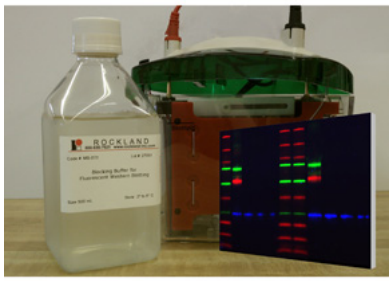
| 610-4302 | Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302 |
| B304 | NORMAL GOAT SERUM (NGS) - B304 |
| BSA-10 | BOVINE SERUM ALBUMIN - Fraction V (Immunoglobulin and Protease Free) - BSA-10 |
| 600-401-GT9 | Ezh1 Antibody600-401-GT9 |

**Images**

1 This blocking buffer is specifically designed for western blotting using fluorochrome conjugated antibodies and can be used for membrane blocking and to dilute both primary and secondary antibodies. See www.rockland-inc.com for specific protocols. This buffer was prepared using ultra-pure reagents dissolved in pharmaceutical grade water (WFI) and consists of a proprietary protein formulation in TRIS buffered saline at pH 7.6 with thimerisol added as an antimicrobial agent.

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**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

**Reviews**

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