

**Mouse TrueBlot® ULTRA: Anti-Mouse Ig HRP - 18-8817-33**
**Code:** 18-8817-33

**Size:** 200 µL

**Product Description:** Mouse TrueBlot® ULTRA: Anti-Mouse Ig HRP - 18-8817-33

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	HRP TrueBlot® ULTRA for IP/WB
<b>Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol
<b>Preservative</b>	Proclin is added as an antimicrobial agent.
<b>Storage Condition</b>	Store at -20 °C. This product is guaranteed for 1 year upon receipt, when handled and stored as instructed.
<b>Synonyms</b>	HRP, TrueBlot, HRP TrueBlot ULTRA, Peroxidase TrueBlot, TrueBlot for IP/WB, TrueBlot for immunoprecipitation, TrueBlot for western blotting
<b>Application Note</b>	Mouse TrueBlot® ULTRA has been reported for use in IP/immunoblot and immunoblotting (WB). Mouse IgG TrueBlot® ULTRA is provided as 1000X solution. To conserve reagent, we recommend incubating the blots from minigels in sealed bags (removing as much air as possible) with minimal volume (2-3 mLs). If used conservatively at 2.5mls/blot will yield enough reagent for 80 blots. Note that there are three key procedural considerations: 1. Protein A or G beads may be used with the mouse, goat and sheep TrueBlot secondaries, but not with the rabbit TrueBlot secondary. Use of protein A or G beads with the rabbit TrueBlot will result in contaminating bands. 2. Immunoprecipitate should be completely reduced. 3. BLOTTO/Milk should be used as the blocking protein for the immunoblot.
<b>Background</b>	Mouse IgG TrueBlot® ULTRA is a unique Anti-Mouse IgG immunoblotting (second step) reagent. Mouse IgG TrueBlot® ULTRA enables detection of immunoblotted target protein bands, without hindrance by interfering immunoprecipitating immunoglobulin heavy and light chains. It is easy to generate publication-quality IP/Western blot data with Mouse IgG TrueBlot® ULTRA, simply substitute the conventional Anti-Mouse IgG blotting reagent with Mouse IgG TrueBlot® ULTRA and follow the prescribed protocol for sample preparation and immunoblotting. Mouse IgG TrueBlot® ULTRA is ideal for use in protocols involving immunoblotting of immunoprecipitated proteins. Mouse IgG TrueBlot® ULTRA preferentially detects the non-reduced form of mouse IgG (IgG1, IgG2a, IgG2b, IgG3) over the reduced, SDS-denatured form of IgG. When the immunoprecipitate is fully reduced immediately prior to SDS-gel electrophoresis, reactivity of Mouse IgG TrueBlot® ULTRA with the 55 kDa heavy chains and the 23 kDa light chains of the immunoprecipitating antibody is minimized thereby eliminating interference by the heavy and light chains of the immunoprecipitating antibody in IP/immunoblot applications. Applications include studies examining post-translational modification (e.g., phosphorylation or acetylation) or protein-protein interactions.
<b>Purity And Specificity</b>	Mouse TrueBlot® ULTRA Antibody Peroxidase Conjugate was prepared from tissue culture supernatant by Protein G affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against Anti-Mouse Serum. Reactivity is observed against native Mouse IgG by both Western blot and ELISA.
<b>Western Blot</b>	1:1000
<b>Expiration</b>	Expiration date is six (6) months from date of opening.
<b>General Reference</b>	Kong, D., L. Xu, Y. Yu, W. Zhu, D.W. Andrews, Y. Yoon, and T.H. Kuo. 2005. Regulation of Ca <sup>2+</sup> -induced permeability transition by BCL-2 is antagonized by Drp1 and hFis1. <i>Molecular and Cellular Biochemistry</i> . 272: 187-199. (Rabbit IgG TrueBlot, PubMed) DiPerna, G., J. Stack, A.G. Bowie, A. Boyd, G. Kotwal, Z. Zhang, S. Arvikar, E. Latz, K.A. Fitzgerald, and W.L. Marshall. 2004. Poxvirus protein N1L targets the I-kappaB Kinase complex, inhibits signaling to NF-kappaB by the Tumor Necrosis Factor superfamily of receptors, and inhibits NF-kappaB and IRF3 signaling by Toll-like Receptors. <i>J. Biol. Chem.</i> 279: 36570-36578. (Rabbit IgG TrueBlot, PubMed) Zhang, X., Y. Ozawa, H. Lee, Y. Wen, T. Tan, B. Wadzinski, and E. Seto. 2005. Histone deacetylase 3 (HDAC3) activity is regulated by interaction with protein serine/threonine phosphatase 4. <i>Genes &amp; Development</i> . 19: 827-839. (Rabbit IgG TrueBlot, PubMed) Lehtonen, S., E. Lehtonen, K. Kudlicka, H. Holthöfer, and M.G. Farquhar. 2004. Nephrin Forms a Complex with Adherens Junction Proteins and CASK in Podocytes and in Madin-Darby Canine Kidney Cells Expressing Nephrin. <i>Am J Pathol.</i> 165:923-936. (Rabbit IgG TrueBlot, PubMed) Tyagi A, Agarwal C, Harrison G, Glode LM, Agarwal R. 2004. Silibinin causes cell cycle arrest and apoptosis in human bladder transitional cell carcinoma cells by regulating CDKI-CDK-cyclin cascade, and caspase 3 and PARP cleavages. <i>Carcinogenesis</i> . 25: 1711-20. (Mouse IgG TrueBlot, PubMed)

**Related Products**

18-0217-32	Fluorescent TrueBlot®: Anti-Mouse IgG Fluorescein 18-0217-32
18-4417-32	Fluorescent TrueBlot®: Anti-Mouse IgG DyLight™ 68018-4417-32

18-8814-33 Goat TrueBlot®: Anti-Goat IgG HRP18-8814-33

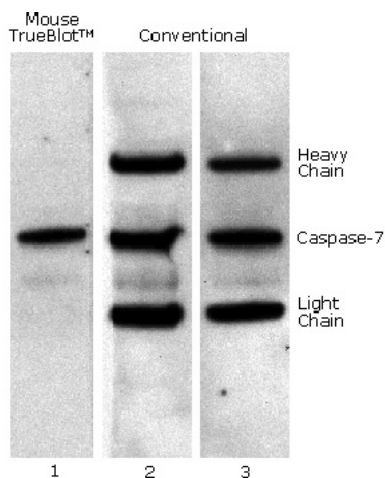
18-8815-31 Sheep TrueBlot®: Anti-Sheep IgG HRP18-8815-31

## Related Links

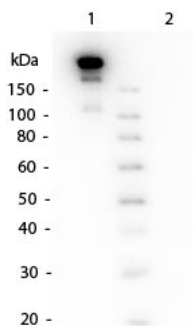
Mouse IgG TrueBlot IP Western Blot Protocol

## Images

1 Mouse TrueBlot® IP / Western Blot: Caspase 7 was immunoprecipitated from 0.5 ml of  $1 \times 10^7$  Jurkat cells/ml with 5  $\mu$ g mouse anti-human Caspase 7. Precipitate from  $1 \times 10^6$  cells was subjected to electrophoresis, transferred to a PVDF membrane, and Western blotted with anti-Caspase 7 using Mouse TrueBlot® ULTRA: Anti-Mouse Ig HRP (Lane 1) or conventional HRP-conjugated anti-mouse antibody (Lane 2) - note the detection of the heavy and light chains of the immunoprecipitating antibody in Lane 2 but not in Lane 1. When Lane 1 is re-immunoblotted using conventional HRP-conjugated anti-mouse polyclonal antibody (Lane 3), the heavy and light chains are now detected, confirming that although the immunoprecipitating heavy and light chains are present, Mouse TrueBlot® ULTRA: Anti-Mouse Ig HRP detects only native antibody and not denatured heavy and light chains.



2 Western Blot of Mouse TrueBlot® ULTRA: Anti-Mouse Ig HRP. Lane 1: Mouse IgG, non-denatured. Lane 2: 5  $\mu$ L Opal Pre-stained Ladder (p/n MB210-0500). Lane 3: Mouse IgG, denatured. Load: 50 ng. Primary antibody: none. Secondary antibody: Mouse TrueBlot® ULTRA: Anti-Mouse Ig HRP at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 160 kDa non-denatured for Mouse IgG.



## 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.