

Datasheet for 13-8817-80**Mouse TrueBlot®: Anti-Mouse Ig Biotin****Overview**

Description:	Mouse TrueBlot®: Anti-Mouse Ig Biotin - 13-8817-80
Item No.:	13-8817-80
Size:	25 µg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	Mouse IgG TrueBlot® ULTRA is a unique Anti-mouse IgG monoclonal antibody. 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 blotting 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. The Biotin Mouse TrueBlot® ULTRA is the biotinylated format of Mouse IgG TrueBlot® ULTRA. It can be used as a secondary antibody, followed by the use of avidin-peroxidase conjugated (A003-03).
Synonyms:	Anti-Mouse IgG Biotin, TrueBlot, Biotin TrueBlot ULTRA, Biotin TrueBlot, TrueBlot for IP/WB, TrueBlot for immunoprecipitation, TrueBlot for western blotting
Host Species:	Rat
Conjugate:	Biotin ULTRA
Clonality:	Monoclonal
Clone ID:	eB144
Format:	IgG

Target Details

Reactivity:	Mouse
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Purity/Specificity:	Mouse TrueBlot® Antibody Biotin Conjugate was prepared from tissue culture supernatant by Protein G affinity chromatography. Assay by Immuno-electrophoresis resulted in a single precipitin arc against Anti-Mouse Serum. Biotin Mouse TrueBlot® ULTRA has been tested by ELISA and western blot.
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Application Details

Tested Applications:	ELISA, WB
Application Note:	Biotin Mouse TrueBlot® ULTRA is ideal for use in protocols involving immunoblotting of immunoprecipitated proteins. Biotin Mouse TrueBlot® ULTRA preferentially detects the non-reduced form of mouse IgG (IgG1, IgG2a, IgG2b, IgG3) over the reduced, SDS-denatured form of IgG. To achieve best results when detecting mouse IgG1 subtypes, we recommend performing a dot blot or titration to determine the optimal dilution factor for your desired application. When the immunoprecipitate is fully reduced immediately prior to SDS-gel electrophoresis, reactivity of Biotin Mouse 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/Western blot applications. Applications include studies examining post-translational modification (e.g., phosphorylation or acetylation) or protein-protein interactions. Note: There are two key procedural considerations: 1. When using any TrueBlot® reagent, ensure there is complete reduction of the lysate. 2. Use BLOTTO/milk powder for complete and effective blocking of the western blot. All recommended dilutions for listed applications are intended as an initial recommendation, specific conditions for each protein and antibody combination should be specifically optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:2000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	Proprietary

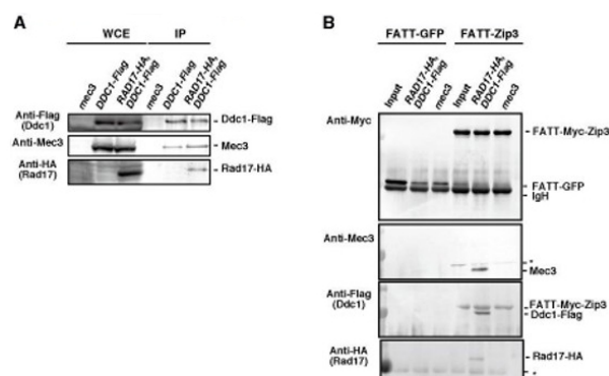
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Store vial at 4 °C before opening. DO NOT FREEZE. This product is stable at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is six (6) months from date of receipt.

Images



Immunoprecipitation

Interaction between 9-1-1 complex and Zip3 protein.

(A) Immunoprecipitation (IP) of Ddc1-Flag from mec3 (non-tag), DDC1-Flag, and RAD17-HA DDC1-Flag cells. Whole-cell extracts (WCE) and immunoprecipitation products were probed with anti-Mec3, anti-Flag and anti-HA antibodies. (B) Pulldown assay of FATT(-Myc)-Zip3. E. coli lysates expressing either FATT-Zip3 or FATT-GFP were incubated with magnetic beads coated with anti-c-Myc antibodies. The beads (Input) were incubated with yeast meiotic cell lysates (at 4 hours) from the wild-type, RAD17-HA DDC1-Flag and mec3 (non-tag) deletion cells. The eluates were analyzed by western blotting using anti-Mec3, anti-c-Myc, anti-Flag or anti-HA antibodies. Anti-Flag antibody can detect both Ddc1-Flag and FATT-Zip3-Flag. The asterisk indicates a non-specific band.

To detect Rad17-HA on membranes, we used Mouse TrueBlot, anti-Mouse IgG Biotin (p/n 13-8817-80), which was visualized with an Alexa-Fluor-680-streptavidin conjugate.

Fig 4. PMID: 25736290

References

- Beaumier A. et al. Extracellular vesicular microRNAs as potential biomarker for early detection of doxorubicin-induced cardiotoxicity. *J Vet Intern Med.* (2020)
- Hayashi K, Taura M, Iwasaki A. The interaction between IKK α and LC3 promotes type I interferon production through the TLR9-containing LAPosome. *Sci Signal.* (2018)
- Shinohara et al. DNA damage response clamp 9-1-1 promotes assembly of ZMM proteins for formation of crossovers and synaptonemal complex. *Journal of Cell Science* (2015)

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.