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Datasheet for 13-8817-82

Mouse TrueBlot®: Anti-Mouse Ig Biotin

Overview

Description:	Mouse TrueBlot®: Anti-Mouse Ig Biotin - 13-8817-82
Item No.:	13-8817-82
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	Mouse IgG TrueBlot® ULTRA is a unique Anti-mouse IgG monoclonal secondary 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

Purity/Specificity:	Mouse TrueBlot® Antibody Biotin 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. Biotin Mouse TrueBlot® ULTRA has been tested by ELISA and western blot.

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:	1.0 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

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.

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 IKKα 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)

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