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Datasheet for ABIN1589968

Mouse TrueBlot® Anti-Mouse Ig Biotin

1 Image

6 Publications

Overview

Quantity:	100 µg
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	Biotin
Application:	Immunoprecipitation (IP), Western Blotting (WB)

Product Details

Brand:	TrueBlot®
Characteristics:	<p>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 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).</p> <p>Conjugation Name: Biotin TrueBlot® ULTRA</p>
Components:	Mouse TrueBlot®: Anti-Mouse Ig Biotin

Application Details

Application Notes: Western Blot Dilution: 1:2000

Comment: 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. 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 blotting 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 milk powder for complete and effective blocking of the western blot.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: Proprietary
0.09 % (w/v) Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Do not freeze. Dilute only prior to immediate use.

Storage: 4 °C

Storage Comment: Store vial at 4 °C before opening. This product is stable at 4 °C as an undiluted liquid.

Expiry Date: 6 months

Publications

Product cited in: Shinohara, Hayashihara, Grubb, Bishop, Shinohara: "DNA damage response clamp 9-1-1

promotes assembly of ZMM proteins for formation of crossovers and synaptonemal complex." in: **Journal of cell science**, Vol. 128, Issue 8, pp. 1494-506, (2016) ([PubMed](#)).

Kong, Xu, Yu, Zhu, Andrews, Yoon, Kuo: "Regulation of Ca²⁺-induced permeability transition by Bcl-2 is antagonized by Drpl and hFis1." in: **Molecular and cellular biochemistry**, Vol. 272, Issue 1-2, pp. 187-99, (2005) ([PubMed](#)).

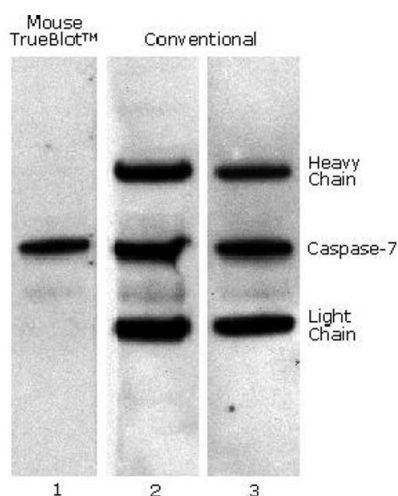
Zhang, Ozawa, Lee, Wen, Tan, Wadzinski, Seto: "Histone deacetylase 3 (HDAC3) activity is regulated by interaction with protein serine/threonine phosphatase 4." in: **Genes & development**, Vol. 19, Issue 7, pp. 827-39, (2005) ([PubMed](#)).

DiPerna, Stack, Bowie, Boyd, Kotwal, Zhang, Arvikar, Latz, Fitzgerald, Marshall: "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." in: **The Journal of biological chemistry**, Vol. 279, Issue 35, pp. 36570-8, (2004) ([PubMed](#)).

Lehtonen, Lehtonen, Kudlicka, Holthöfer, Farquhar: "Nephrin forms a complex with adherens junction proteins and CASK in podocytes and in Madin-Darby canine kidney cells expressing nephrin." in: **The American journal of pathology**, Vol. 165, Issue 3, pp. 923-36, (2004) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Mouse TrueBlot® IP / Western Blot: Caspase 7 was immunoprecipitated from 0.5 ml of 1x10⁷ Jurkat cells/mL with 5 µg mouse anti-human Caspase 7. Precipitate from 1x10⁶ 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.