



Datasheet for ABIN6698837

Fluorescent TrueBlot®: Anti-Mouse Ig DyLight™ 800



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Overview

Quantity:	100 µL
Target:	Ig
Reactivity:	Mouse
Host:	Rat
Conjugate:	DyLight 800
Application:	Immunohistochemistry (IHC), Western Blotting (WB), FLISA, Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

Brand:	TrueBlot®
Characteristics:	<p>Synonyms: DL800, TrueBlot, DL800 TrueBlot ULTRA, DyLight™ 800 TrueBlot, TrueBlot for IP/WB, TrueBlot for immunoprecipitation, TrueBlot for western blotting, Fluorescent TrueBlot, Ms TrueBlot, Infrared, IR, NIR</p> <p>Background: Mouse IgG TrueBlot® is a unique DyLight™ 800 conjugated Anti-mouse IgG monoclonal secondary antibody. Mouse IgG TrueBlot® 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/Fluorescent Western Blot data with Mouse IgG TrueBlot®, simply substitute the conventional DL800 Anti-mouse IgG blotting reagent with Fluorescent Mouse TrueBlot® Antibody DyLight™ 800 and follow the prescribed protocol for sample preparation and immunoblotting. Mouse IgG TrueBlot® is ideal for use in protocols involving immunoblotting of immunoprecipitated proteins. TrueBlot preferentially detects the non-reduced form of mouse IgG over the reduced, SDS-denatured form of IgG. When the immunoprecipitate is fully reduced immediately prior to SDS-gel</p>

Product Details

electrophoresis, reactivity of Mouse IgG TrueBlot® 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.

Purification: Fluorescent Mouse TrueBlot® Antibody DyLight™ 800 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.

Labeling Ratio: 2.3

Target Details

Target: Ig

Abstract: [Ig Products](#)

Application Details

Application Notes: Immunohistochemistry Dilution: User Optimized

Application Note: Fluorescent Mouse TrueBlot® Antibody DyLight™ 800 may also be used for detection in immunoassays that do not employ immunoprecipitation. Fluorescent Mouse TrueBlot® Antibody DyLight™ 800 is provided as a lyophilized powder. 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 40 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. Bovine Serum Albumin or MB-070 Blocking Buffer for Fluorescent Western Blotting, at low concentrations, should be used as the blocking protein for the immunoblot. DO NOT USE BLOTTO or MILK.

Note: 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. 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. Fluorescence technology is widely used to detect proteins. However, many common visible fluorophores often result in considerable background

Application Details

fluorescence in the visible range. Visible fluorophores are rarely used for membrane-based protein detection because of this high background. DyLight™ 800 and DyLight™ 680 antibody and reagent conjugates are specifically designed for protein detection methods that use longer-wavelength, near-infrared (IR) fluorophores to visualize proteins in western blotting and other applications. Very low background fluorescence in the IR range provides for a much higher signal-to-noise ratio than visible fluorophores. Detection levels in the picogram range on Western blots rival the sensitivity of chemiluminescence on film. DyLight™ 800 conjugates are optimized for the Odyssey® Infrared Imaging System developed by LI-COR. DyLight™ 800 conjugates are also suitable for immunofluorescence microscopy using commercially available excitation/emission filters in the 780nm/820nm range. Dual simultaneous labeling in western blots or microscopy is achieved when DyLight™ 800 conjugates are used in conjunction with DyLight™ 680 conjugates. DyLight™ 800 and DyLight™ 680 conjugates provide an ultra-sensitive and convenient alternative to standard chemiluminescent protein detection methods, as well as a valuable tool for multicolor imaging.

FLISA Dilution: User Optimized

Flow Cytometry Dilution: 1:2,000 - 1:10,000

Western Blot Dilution: 1:1000

IF Microscopy Dilution: 1:500 - 1:2,500

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Volume: 100 µL
Reconstitution Buffer: Restore with deionized water (or equivalent)

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: 10 mg/mL Polyethylene Glycol (PEG-8000)
0.01 % (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.

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after

Handling

standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: 12 months

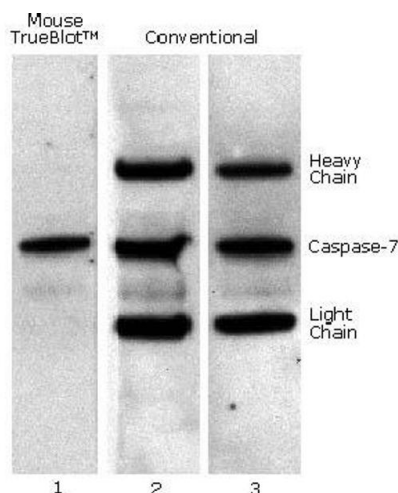
Publications

Product cited in: van de Poel, Dreer, Velic, Macek, Baskaran, Iftner, Stubenrauch: "Identification and Functional Characterization of Phosphorylation Sites of the Human Papillomavirus 31 E8^AE2 Protein." in: **Journal of virology**, Vol. 92, Issue 4, (2018) ([PubMed](#)).

Tian, Li, Gao, Li, Yang, Wang: "Identification and validation of the role of matrix metalloproteinase-1 in cervical cancer." in: **International journal of oncology**, Vol. 52, Issue 4, pp. 1198-1208, (2018) ([PubMed](#)).

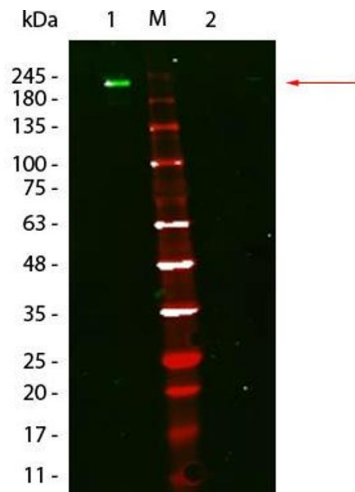
Dreer, Fertey, van de Poel, Straub, Madlung, Macek, Iftner, Stubenrauch: "Interaction of NCOR/SMRT Repressor Complexes with Papillomavirus E8^AE2C Proteins Inhibits Viral Replication." in: **PLoS pathogens**, Vol. 12, Issue 4, pp. e1005556, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. Mouse IP / Western Blot: Caspase 7 was immunoprecipitated from 0.5 ml of 1x10⁷ Jurkat cells/ml with 5 ug mouse anti-human Caspase 7. Precipitate from 1x10⁶ cells was subjected to electrophoresis, transferred to an PVDF membrane, and Western blotted with anti-Caspase 7 using Mouse 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 ULTRA: Anti-Mouse Ig HRP detects only native antibody and not denatured heavy and light chains.

Western Blotting

Image 2. Fluorescent: Anti-Mouse Ig DyLight 800 - Western Blot. Western Blot of Fluorescent: Anti-Mouse Ig 800. Lane 1: Mouse IgG, Non-reduced. Lane 2: Mouse IgG, Reduced. Load: 50 ng per lane. Primary antibody: none. Secondary antibody: Fluorescent: Anti-Mouse Ig 800 at 1:1,000 for 60 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 160 kDa for Mouse IgG, Non-reduced. Migrates at slightly higher molecular weight than predicted.