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Datasheet for 18-8814-31

Goat TrueBlot®: Anti-Goat IgG HRP

Overview

Description:	Goat TrueBlot®: Anti-Goat IgG HRP - 18-8814-31
Item No.:	18-8814-31
Size:	50 µL
Applications:	IP, WB
Reactivity:	Goat
Host Species:	Mouse

Product Details

Background:	Goat IgG TrueBlot® is a unique horseradish peroxidase conjugated Anti-Goat IgG monoclonal secondary antibody. Goat 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/Western Blot data with Goat IgG TrueBlot®, simply substitute the conventional HRP Anti-Goat IgG blotting reagent with Goat IgG TrueBlot® and follow the prescribed protocol for sample preparation and immunoblotting. Goat IgG TrueBlot® is ideal for use in protocols involving immunoblotting of immunoprecipitated proteins. TrueBlot preferentially detects the non-reduced form of Goat IgG over the reduced, SDS-denatured form of IgG. When the immunoprecipitate is fully reduced immediately prior to SDS-gel electrophoresis, reactivity of Goat 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/immunoblot applications. Applications include studies examining post-translational modification (e.g., phosphorylation or acetylation) or protein-protein interactions.
Synonyms:	Anti-Goat IgG HRP, TrueBlot, HRP TrueBlot ULTRA, Peroxidase TrueBlot, TrueBlot for IP/WB, TrueBlot for immunoprecipitation, TrueBlot for western blotting
Host Species:	Mouse
Conjugate:	Peroxidase (HRP) ULTRA
Clonality:	Monoclonal
Clone ID:	eB270
Format:	IgG
Detection Kit Type:	Immunoprecipitation Kit

F/P Ratio:	3.1

Target Details

Reactivity:	Goat
Purity/Specificity:	Goat TrueBlot® 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-Goat Serum. Reactivity is observed against native Goat IgG by both Western blot and ELISA.
Relevant Links:	• TrueBlot HRP Product Protocols • TrueBlot IP Set Protocol

Application Details

Tested Applications:	IP, WB
Application Note:	Goat IgG HRP TrueBlot has been tested in western blot and immunoprecipitation and may also be used for detection in immunoblotting assays that do not employ immunoprecipitation. Goat IgG TrueBlot® 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 20 blots. 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. 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

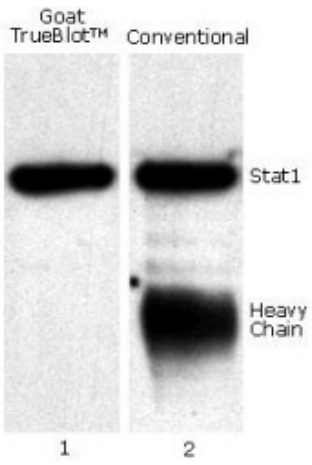
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Proclin is added as an antimicrobial agent.

Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store at -20°C. This product is guaranteed for 6 months upon receipt, when handled and stored as instructed.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Western Blot
Goat TrueBlot® IP / Western Blot: Jurkat cell lysate (0.5 ml of 1x10e7 cells/ml) was incubated with goat anti-human Stat1 and immunoprecipitated using Protein G. Precipitate from 5x10e5 cells was subjected to electrophoresis, transferred to a PVDF membrane, and Western blotted with anti-Stat1 using Goat TrueBlot®: Anti-Goat IgG HRP (lane 1) and conventional HRP-conjugated anti-goat polyclonal antibody (lane 2).

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