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Datasheet for 88-1488-31

Goat TrueBlot® Set (IP Agarose beads)

Overview

Description:	Goat TrueBlot® Set (with IP Agarose beads) - 88-1488-31
Item No.:	88-1488-31
Size:	1 Set
Applications:	IP, WB
Reactivity:	Goat

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/Western blot applications. Applications include studies examining post-translational modification (e.g., phosphorylation or acetylation) or protein-protein interactions. Goat IgG TrueBlot may also be used for detection in immunoblotting assays that do not employ immunoprecipitation.
Synonyms:	Anti-Goat immunoglobulin Gamma, Agarose-conjugated IgG, Rb-a-Gt IgG, Rabbit-anti-Goat IgG, TrueBlot, TrueBlot for immunoprecipitation, IP Agarose beads for TrueBlot, anti-Goat IgG HRP, HRP TrueBlot ULTRA, Peroxidase TrueBlot, TrueBlot for IP/WB, TrueBlot for western blotting
Conjugate:	Peroxidase (HRP) ULTRA
Clonality:	Monoclonal
Clone ID:	eB270
Format:	IgG
Detection Kit Type:	Immunoprecipitation Kit

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:	• Goat IgG TrueBlot Protocol

Application Details

Tested Applications:	IP, WB
Application Note:	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. 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. MB-70 or BSA is not an effective blocker. Goat TrueBlot Set Components: 1. Goat IgG TrueBlot® HRP-conjugated monoclonal secondary antibody reacting with goat IgGs for optimal signal detection in immunoprecipitation/immunoblotting experiments. 2. Anti-Goat Ig IP Beads: 2.5 mL. Binds 1 mg Ig/mL beads. 3. Western blot incubation tray. Special Notes: Upon initial use of the IP beads, we recommend that the vial be inverted several times to get the beads into suspension. We recommend using a large bore pipet to pipet up the liquid for use. For storage of the opened vial of beads, we recommend that the vial cap be sealed with parafilm to help prevent evaporation of the buffer. 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.
IP:	TrueBlot anti-Goat Ig IP Beads (binds 1 mg Ig/ml beads) have been reported for use in IP
WB:	1:1000

Formulation

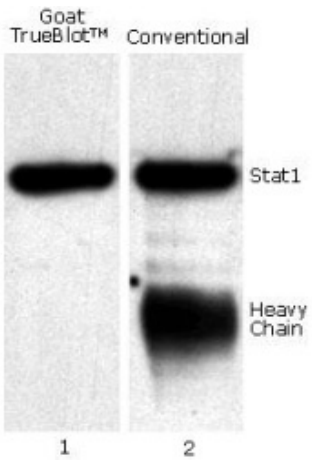
Physical State:	Liquid (sterile filtered)

Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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 TrueBlot® Anti-Goat Ig IP beads (00-8844-25) at 2-8 °C and Goat TrueBlot® (18-8814-31) 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).

References

- Guo Z et al. Toll-like Receptor 2 (TLR2) Deficiency Abrogates Diabetic and Obese Phenotypes while Restoring Endothelial Function via Inhibition of NOX1. *Diabetes.* (2021)

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.