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Datasheet for 00-8844-25

TrueBlot® Anti-Goat Ig IP Agarose Beads

Overview

Description:	TrueBlot® Anti-Goat Ig IP Agarose Beads - 00-8844-25
Item No.:	00-8844-25
Size:	2.5 mL
Applications:	WB, IP
Reactivity:	Goat
Host Species:	Rabbit

Product Details

Background:	TrueBlot® Anti-Goat Ig IP Agarose Beads are a suspension of activated agarose beads coupled with rabbit Anti-goat IgG. It is suitable for precipitation of goat IgGs used as the primary antibodies in immunoprecipitation assays. The beads are in suspension and will settle upon storage. Prior to use, mix the vial gently (do not vortex) to ensure delivery of proper bead volume.
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 Ig, Anti-Goat IgG IP Agarose
Host Species:	Rabbit
Conjugate:	Agarose ULTRA
Clonality:	Polyclonal
Format:	IgG
Detection Kit Type:	Immunoprecipitation Kit

Target Details

Reactivity:	Goat
Purity/Specificity:	TrueBlot® Anti-Goat Ig IP Agarose Beads have been tested in western blot.
Relevant Links:	• TrueBlot IP Protocol

Application Details

Tested Applications:	WB
Suggested Applications:	IP (Based on references)
Application Note:	Upon initial use of this product, 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, we recommend that the vial cap be sealed with parafilm to help prevent evaporation of the buffer. Procedure: Preparation of Immunoprecipitated Sample for SDS-PAGE: 1. Preclear cell lysate: Add 50 µL of Anti-goat IgG beads and 500 µL of cell lysate sample to a microcentrifuge tube and incubate on ice for 30 minutes. Spin at 10,000xg for 3 minutes and transfer the supernatant to a new microcentrifuge tube. 2. Immunoprecipitation: Add 5 µg of primary antibody to the microcentrifuge tube containing the precleared lysate. Incubate on ice for 1 hour. Add 50 µL of Anti-Goat IgG Beads. Incubate for 1 hour on a rocking platform. Spin the microcentrifuge tube at 10,000xg for 1 minute. Remove supernatant completely and wash the (pelleted) beads 3 times with 500 µL of Lysis Buffer (50mM Tris HCl, pH 8.0; 150mM NaCl; 1% NP-40). 3. Prepare sample for SDS-PAGE: After the last wash, aspirate supernatant, and add 50 µL Laemmli Buffer (with 50 mM DTT or 2% β-mercaptoethanol, final) to bead pellet. Vortex and heat to 90-100 °C for 10 minutes. Spin at 10,000xg for 3 minutes, collect supernatant, and load onto the gel. Avoid loading Anti-goat Ig beads. Note: The supernatant can be stored at -20 °C for future use. After thawing, add dithiothreitol and heat as above. Centrifuge the sample at 10,000xg for 1 minute in a microcentrifuge to pellet any Anti-goat Ig beads and immediately transfer an aliquot of the supernatant to gel wells.
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:	Use with Goat TrueBlot® (cat # 18-8814-33)

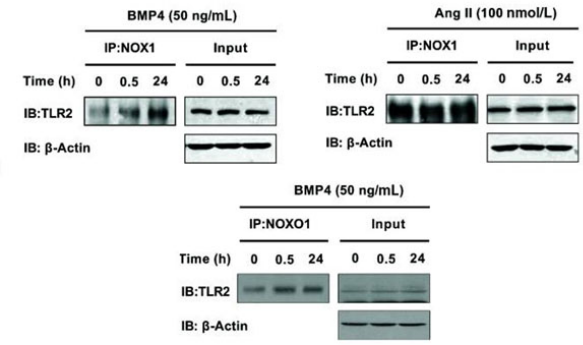
Formulation

Physical State:	Suspension of agarose beads
Concentration:	8mg antibody per cc agarose 0.5 cc agarose per ml of suspension 10.0 mg antibody per cc agarose
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4 °C prior to opening. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Immunoprecipitation
BMP4 induces increased interaction between TLR2 and NOX1/NOXO1 in aortic endothelial cells. BAECs were treated with BMP4 (50 ng/mL) or Ang II (100 nmol/L) for 30 min and 24 h, and the cells were harvested for co-immunoprecipitation (co-IP). The co-IP of TLR2 by NOX1 or NOXO1 was determined by Western blotting and normalized to β-actin. A: Representative co-IP blots of TLR2 by anti-NOX1 in BMP4-stimulated endothelial cells. B: Grouped densitometric data of co-IP results in A (n = 5–6). C: Representative co-IP blots of TLR2 by anti-NOX1 in Ang II–stimulated endothelial cells. Figure 1. PMID: 34127487.

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)

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