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Datasheet for 00-1800-20

TrueBlot® Anti-Rabbit IgG Magnetic Beads

Overview

Description:	TrueBlot® Anti-Rabbit IgG Magnetic Beads - 00-1800-20
Item No.:	00-1800-20
Size:	2.0 mL
Applications:	IP, SDS-PAGE
Reactivity:	Rabbit
Host Species:	Goat

Product Details

Background:	TrueBlot® Magnetic Beads are uniform, non-aggregating, super-paramagnetic beads consisting of a ferric oxide core functionalized with various silane groups. The super-paramagnetic nanoparticles are coupled with a biomolecule, such as goat Anti-rabbit IgG, and are specifically designed, tested and quality controlled for isolation and purification of rabbit IgG, and immunoprecipitation methods using manual or automatic platforms. This antibody binds the heavy chain of all rabbit IgG subclasses and is suitable for immunoassays that utilize a rabbit IgG primary polyclonal antibody. Cell separation and sorting can be achieved using a rabbit IgG antibody to defined cell surface antigens. The beads have a large surface area with high capture efficiencies. 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. Bead mean diameter is ~0.5 µm, bead concentration is 5 mg/mL.
Synonyms:	Anti-Rabbit Immunoglobulin Gamma, Magnetic beads, nanoparticles, paramagnetic, Magnetic bead-conjugated IgG, Gt-a-Rb IgG, Goat-anti-Rabbit IgG, immunoprecipitation magnetic beads, IP beads, Anti-Rabbit IgG Magnetic beads
Host Species:	Goat
Conjugate:	Magnetic Bead
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Rabbit

Relevant Links:

- 00-1800-20 SDS
- 00-1800 Protocol

Application Details

Tested Applications:	IP, SDS-PAGE
Application Note:	TrueBlot® goat Anti-rabbit IgG magnetic beads can be used for separation and purification of rabbit antibodies from serum or rabbit antibody-labeled components, as well as for immunoassays, immunoprecipitation, and IP Western blots. Anti-Rabbit IgG Magnetic Beads has been tested in SDS-Page, immunoprecipitation, and western blot. For antibody purification, goat Anti-rabbit IgG magnetic beads are incubated with the rabbit antibody solution and then separated by magnets. After the unbound particulates are washed from the beads, the bound antibodies are eluted from the beads using the elution buffer. The beads are then magnetically separated from the eluted solution, which is removed manually. For IP, target specific antibody is incubated with goat Anti-rabbit IgG magnetic beads. The unbound antibody is washed and the sample containing target antigen is added. After unbound particulates are washed from the beads, the purified protein is eluted from the beads using elution buffer. The samples are then resolved by SDS-PAGE and analyzed by Western blotting.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IP:	User Optimized
WB:	User Optimized

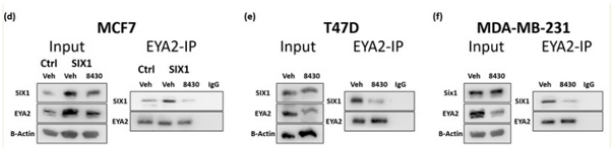
Formulation

Physical State:	Liquid
Concentration:	5 mg/mL by dry weight
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (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
Compound 8430 disrupts SIX1-EYA2 interaction in breast cancer cells.
d-f. EYA2 Immunoprecipitation (IP) followed by Western Blot (WB) analyses. Representative images (n=3) of WBs demonstrate levels of SIX1 and EYA2 in input and in the EYA2-IP fractions in vehicle vs 8430 treated MCF7-Ctrl/SIX1 (d), T47D (e), and MDA-MB-231 (f) cells. Cells were lysed using ELB buffer (250mM NaCl, 50mM Hepes pH 7.0, 5mM EDTA and 0.1% NP40), and protein samples were pre-cleared using TrueBlot anti-Rabbit IgG Magnetic beads (p/n 00-1800-50). Samples were then incubated with 2µg of antibody targeting EYA2: anti-EYA2 IgG and 50µl of TrueBlot magnetic beads overnight at 4 °C, while gently rocking. The following day, beads were washed using TBS, and proteins were dissociated from the beads by boiling the sample with loading buffer prior to the Western Blotting analyses. Of note, secondary antibodies used during Western Blot analyses only recognize non-denatured IgG (Rabbit TrueBlot ULTRA Anti-Rabbit IgG HRP (p/n 18-8816-31) and Mouse TrueBlot ULTRA Anti-Mouse IgG HRP (p/n 18-8817-33)).
Fig3. D, E, F. PMID: 32341035.

References

- Zhou H, Blevins MA, Hsu JY, et al. Identification of a Small-Molecule Inhibitor That Disrupts the SIX1/EYA2 Complex, EMT, and Metastasis. *Cancer Res.* (2020)
- Bhalla K et al. SIRT3, a metabolic target linked to ataxia-telangiectasia mutated (ATM) gene deficiency in diffuse large B-cell lymphoma. *Sci Rep.* (2020)

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