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Datasheet for PA00-18-2

TrueBlot® Protein A Magnetic Beads

Overview

Description:	TrueBlot® Protein A Magnetic Beads - PA00-18-2
Item No.:	PA00-18-2
Size:	2 mL
Applications:	IP, SDS-PAGE

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 Protein A, and are specifically designed, tested and quality controlled for isolation and purification of antibodies, and immunoprecipitation methods using manual or automatic platforms. Protein A, attached to magnetic bead surface, can bind to antibodies from many different species, enabling purification of antibodies from crude extracts. Immunoprecipitation assays with Protein A magnetic beads result in high capture efficiencies and high yield of target antigen. Protein A magnetic beads are stable, pre-blocked beads that provide highly purified product. Bead mean diameter is ~0.5 µm, bead concentration is 5 mg/mL, and binding capacity is ≥ 80 µg rabbit IgG/mg of beads.
Synonyms:	Magnetic beads, particles, microparticles, paramagnetic nanoparticles, magnets, protein antibody isolation, purification, IgG
Conjugate:	Protein A

Target Details

Relevant Links:

- UniProtKB - P38507
- PA00-18 Protocol

Application Details

Tested Applications:	IP, SDS-PAGE

Application Note:	TrueBlot® Protein A magnetic beads has been tested by IP and SDS-PAGE and can be used for immunoprecipitation (IP) and Co-IP experiments as well as for antibody purification. For IP, target specific antibody is incubated with cell lysate. Protein A magnetic beads are then incubated with antigen-antibody complex at room temperature, washed and then eluted using elution buffer. The samples are then resolved by SDS-PAGE and analyzed by Western blotting. For antibody purification, Protein A magnetic beads are incubated with the 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IP:	User Optimized
WB:	User Optimized

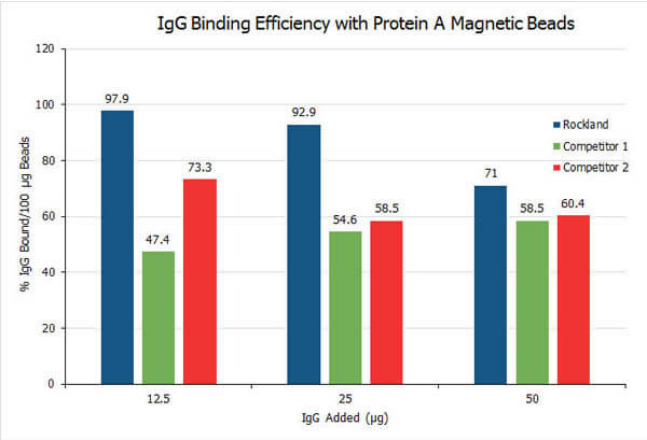
Formulation

Physical State:	Suspension of Magnetic Beads
Concentration:	5.0 mg beads/mL
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:	The Protein A Magnetic Beads should be stored in the refrigerator (2-8 °C). The reagent must be allowed to reach room temperature (20-25 °C) before use and may be used until the expiration date. Do not freeze, dry, or centrifuge the beads as they may result in loss of binding activity and aggregation.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Diagram

Trueblot® magnetic beads have approximately 1.5 to 3-fold higher binding capacity compared to beads from competitors 1 and 2 respectively. Magnetic beads (100 µg) were incubated with 12.5, 25, and 50 µg of purified rabbit IgG. Binding was calculated using BCA protein assay by subtracting amount of IgG in flow through from IgG loaded onto the beads.

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.