Product Datasheet

Protein A/G Magnetic Beads
NBP1-71715

Unit Size: 5 ml

Store at 4C. Do not freeze.

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Publications: 1

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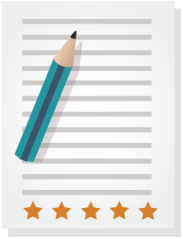

NBP1-71715

Protein A/G Magnetic Beads

Product Information

Unit Size	5 ml
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C. Do not freeze.
Buffer	supplied at 10mg/mL in water containing 0.05% NaN3

Product Description

Notes	**Important Product Information:** Do not centrifuge, allow beads to dry or freeze. Centrifuging, drying or freezing will cause the beads to aggregate and lose binding activity. Always vortex beads to fully resuspend before pipetting. To minimize protein degradation, include protease inhibitors in preparation of cell lysates. - A low-pH elution may be used for single-use applications. Optimal time for low-pH elution is 10 minutes; exceeding 10 minutes may result in nonspecific binding and yield reduction. - When using rabbit antibodies (primary or secondary) in downstream Western blot applications, perform elution in SDS-PAGE sample buffer at room temperature. For all other antibody species, boiling the beads in SDS-PAGE sample buffer is acceptable for single-use applications. Boiling could cause bead aggregation and loss of binding activity. Protein A/G Magnetic Beads are compatible with small-scale antibody purification and immunoprecipitation and analyses by Western blot and mass spectrometry. Protein A/G has a broader binding range than either Protein A or Protein G individually. Protein A/G binds to all human IgG subclasses, binds somewhat to IgA, IgE, IgM and, to a lesser extent, IgD. Unlike Protein G, Protein A/G does not bind serum albumin because the gene sequence coding for the albumin-binding site has been eliminated. Protein A/G is effective for mouse monoclonal antibody purification from IgG subclasses because Protein A/G binds all mouse IgG subclasses but does not bind murine IgA, IgM or serum albumin.

Product Application Details

Applications	Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation
Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation
Application Notes	Protein AG Magnetic Beads are useful for Immunoprecipitation for analysis in non-reducing conditions as well as Antibody Purification. Sufficient For: Binding 55 to 85 ug rabbit IgG/mg beads. Also useful in Chromatin Immunoprecipitation. Beads are 1um in diameter.

Publications

Ziyatdinova S, Viswanathan J, Hiltunen M, Tanila H. Reduction of Epileptiform Activity by Valproic Acid in a Mouse Model of Alzheimer's Disease is not Long-lasting after Treatment Discontinuation Epilepsy Res 2015-04-08 [PMID: 25847338]

Procedures

Immunoprecipitation (NBP1-71715)
Note: This protocol is a general guideline for immunoprecipitation and will require optimization for each application.

1. Combine the antigen sample with 10ug of antibody. Adjust the reaction volume to 500uL with the Cell Lysis Buffer. Incubate the reaction for 1-2 hours at room temperature or overnight at 4C with mixing.

2. Place 25uL (0.25mg) of Protein A/G Magnetic Beads into a 1.5mL microcentrifuge tube.

3. Add 175uL of Wash Buffer (Tris-buffered saline containing 0.05% Tween-20 Detergent and 0.5M NaCl) to the beads and gently vortex to mix.

4. Place the tube into a magnetic stand to collect the beads against the side of the tube. Remove and discard the supernatant

5. Add 1mL of Wash Buffer to the tube. Invert the tube several times or gently vortex to mix for 1 minute. Collect beads with magnetic stand. Remove and discard the supernatant.

6. Add the antigen sample/antibody mixture to a 1.5mL microcentrifuge tube containing pre-washed magnetic beads and incubate at room temperature for 1 hour with mixing.

7. Collect the beads with a magnetic stand and then remove the flow-through and save for analysis.

8. Add 500uL of Wash Buffer to the tube and gently mix. Collect the beads and discard the supernatant. Repeat wash twice.

9. Add 500uL of purified water to the tube and gently mix. Collect the beads on a magnetic stand and discard the supernatant.

10. Low-pH Elution: Add 200uL of Elution Buffer (1% SDS, 100mM $NaHCO_3$) to the tube. Incubate the tube at room temperature with mixing for 15 minutes. Magnetically separate the beads and save the supernatant containing target antigen.

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