BioVision For research use only

Protein A Magnetic Beads

CATALOG #: 6507-1

AMOUNT: 1 ml

LOT #: _____

PREPARATION: Protein A Magnetic Beads are prepared by covalently coupling

Recombinant Protein A (contains five IgG binding domain, BV catalog # 6500B) to 6% cross-linked magnetically beaded agarose. The coupling technique is optimized to give a high binding capacity for IgG. The capacity of IgG binding is generally greater than 25 mg

of human IgG per ml of wet gel.

CONTENTS: Supplied as a 50% slurry in 20% ethanol.

TECHNICAL SPECIFICATIONS:

ParameterDescriptionSupportParamagnetic, spherical, 6 % cross-linkedCharacteristicsagarose

Ligand Recombinant Protein A

Particle Size 75 – 150 μm

Binding Capacity Generally >25 mg human IgG/ml wet

beads

Working

Temperature Room temperature Storage Solution 20% Ethanol

Storage

Temperature 4 – 8 °C

Stability: Stable, as supplied, for at least 1 year.

FEATURES: Easy to use, high-binding capacity, non-adherent beads. Useful for

immunoprecipitation and enrichment of IgG antibodies. High affinity for Fc region of IgG antibodies from a variety of species. Protein A binds to most human and mouse IgG subclasses (e.g., human IgG1, IgG2, IgG4; mouse IgG1, IgG2a, IgG2b, IgG3). It also binds to total IgG from cow, guinea pig, hamster, horse, pig, and rabbit. Protein A

has little affinity to chicken, goat, rat and sheep.

SUGGESTED PROTOCOL:

Prepare the antibody solution by diluting the required amount of antibody in binding buffer before running the protocol.

- 1. Magnetic Bead Preparation (perform three times)
 - a. Dispense the required amount of magnetic beads into a 1.5 ml microfuge tube.
 - b. Place the tube in the magnetic rack and remove the storage solution.
 - c. Add 500 µl binding buffer.
 - d. Resuspend the beads.
 - e. Remove the liquid
- Antibody Capture
 - a. Immediately add the antibody solution.
 - b. Resuspend and mix (slow end-over-end) for at least 15 minutes.
 - c. Remove the liquid.
- 3. Washing
 - a. Add 500 µl Binding Buffer containing 0.5 M NaCl; Remove the liquid.
 - b. Add 500 µl Binding Buffer; Remove the liquid.
- 4. Target Binding
 - a. Add sample diluted in binding buffer.
 - b. Incubate with slow end-over-end mixing for up to 60 minutes.
 - c. Remove and collect unbound fraction.
- 5. Washing (perform three times)
 - a. Add 500 µl wash buffer
 - b. Remove liquid (save washes to troubleshoot)
- 6. Elution (perform three times)
 - a. Add 2 volumes elution buffer (vs. bead volume).
 - b. Completely resuspend beads and incubate at least 2 minutes.
 - c. Remove and collect elution fraction.

RECOMMENDED BUFFER EXAMPLES:

Binding buffer: 50 mM Tris, 150 mM NaCl, pH 7.5

Wash buffer: 50 mM Tris, 150 mM NaCl, pH 7.5 (or add 1% Octylglucoside to

this buffer)

(Could also try 1X PBS as both binding and wash buffer)

Elution buffer: 0.1 M -0.2 M Glycine pH 2.5-3.1 (or 0.1 M citric acid, pH 2.5-3.1

or 2.5 % Acetic Acid)

RELATED PRODUCTS:

Recombinant Protein A Protein A Sepharose Protein G Magnetic Beads Recombinant Protein G Protein G Sepharose Protein L Magnetic Beads Recombinant Protein L Protein L Sepharose Protein L Magnetic Beads Recombinant Protein A/G Protein A/G Sepharose Protein A/G Magnetic Beads Recombinant Protein A/G/L Protein A/G/L Sepharose Protein A/G/L Magnetic Beads Protein G-FITC Protein G Polyclonal Antibody Protein G-Biotin

Protein A Polyclonal Antibody Protein G coated Plate

Protein L Polyclonal Antibody

Protein L Polyclonal Antibody

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