BioVision

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For research use only

Hi-Bind™ Protein A-Agarose

CATALOG #:	6520-1	1 ml
	6520-5	5 ml
	6520-25	25 ml
	6520-100	100 ml

LOT #: _____

PREPARATION: Protein A-Agarose is prepared by covalently coupling recombinant Protein A to 6% cross-linked Agarose beads. The coupling technique is optimized to give a high binding capacity for IgG. The capacity of IgG binding could be greater than 30 mg of rabbit IgG per ml of wet gel.

CONTENTS: Supplied as 50% slurry in 20 % Ethanol/H_2O.

FEATURES: High binding capacity (>30 mg/ml of gel); Maximum flow rate* = 1800 cm/hr; Low falling off of recombinant Protein A. NOTE * = the highest flow that beads withstand for 1 min, without collapsing and the pressure reaching 1 MPa.

APPLICATIONS: Purification of monoclonal and polyclonal antibodies. 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.

STORAGE: Store at 4˚C. Do not freeze. Stable, as supplied, for at least 1 year.

FOR RESEARCH USE ONLY! Not to be used on humans.

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PROCEDURE EXAMPLE:

1. Wash column with ddH_2O to remove air bubbles.
2. Fill column with protein A beads.
3. Wash the column with 5X volume of Binding Buffer.
4. Dilute serum sample with Binding Buffer (1:1 ratio).
5. Invert the diluted serum sample to mix well. Make sure no bubbles in the solution.
6. Pour the solution onto the column.
7. Collect the solution and repeat step 6 & 7 for 10 times.
8. Wash the column 4 – 5 times with Binding Buffer containing 0.5 M NaCl
9. Wash the column 4 - 5 times with the Binding Buffer.
10. Add Elution Buffer to elute IgG (0.5-1 ml each time).
11. Collect the eluent using microcentrifuge tube.
12. Assay protein concentration and combine the fractions containing sufficient amount of IgG.
13. To regenerate/store column:
    a. Wash with 3 volumes of elution buffer.
    b. Wash with 3 volumes of distilled water.
    c. Store column in 20 % Ethanol/H2O.

BUFFER EXAMPLE:

Binding buffer: 0.05 M sodium borate, 0.15 M sodium chloride pH 8.0

Elution buffer: 0.1 M citric acid, pH 2.75

RELATED PRODUCTS:

- Recombinant Protein G & Sepharose Beads
- Recombinant Protein L & Sepharose Beads
- Recombinant Protein A/G & Sepharose Beads
- Recombinant Protein A/G/L & Sepharose Beads
- Protein A Polyclonal Antibody
- Protein G Polyclonal Antibody
- Protein L Polyclonal Antibody

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