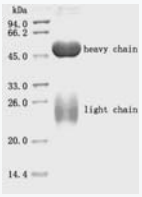
Recombinant Protein A Conjugated to Sepharose Resin

Catalog No.	LT12014
Packing Details	1 mL, crosslinked 6% beaded agarose supplied as 50% slurry
Binding Capacity	20-25 mg human IgG per mL of settled resin
Support pH Stability	2-11 (short term); 3-10 (long term)
Particle Size	45 to 165 microns
Volumetric Flow	Approx. 1mL/minute ; Maximum Linear Velocity: 30cm per hour; Maximum Pressure: less than 4.5psi (0.3 bar)
Storage	4 °C - 8 °C in 20% ethanol
Shelf Life	3 years



Protocol

Protein A Binding buffer: 20 mM sodium phosphate, 150 mM NaCl, pH 7.4
Protein A Elution buffer: 100 mM sodium citrate, pH 3.0
Protein A Neutralization buffer: 1M citrate buffer, pH 9.0

1. Wash the prepacked column with 5~10 column volumes of distilled water to remove 20% ethanol.
2. Equilibrate the column with 5~10 column volumes of binding buffer.
3. 1:10 dilution of serum with binding buffer. Filtrate the diluted serum through a 0.45 μm filter and load the sample.
4. Wash with 10 column volumes of binding buffer.
5. Elute with 5 column volumes of elution buffer and neutralize collect fractions with neutralization buffer.
6. After each separation cycle, regenerate the resin by washing with approximately 3~5 column volumes of 0.1 M citrate buffer (pH 3.0).
7. Confirm the purity of the collected antibody by SDS-PAGE analysis.
8. Purification capacity: ≥30 mg of rabbit IgG per ml of recombinant protein A agarose gel.

Notes

1. Avoid air bubbles.
2. Regenerate the resin every 5 purification in order to maintain the product efficiency.
3. After every 10 separation cycle, wash the resin with 5 column volumes of 20% ethanol and 5~10 column volumes of 70% ethanol sequentially to remove hydrophobic substances.
4. Keep at 4~8 °C in 20% ethanol.

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