Datasheet for ABIN1536564

Protein A Resin

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Overview

Quantity:	5 mL
Target:	Protein A
Reactivity:	Staphylococcus aureus
Application:	Purification (Purif), Affinity Chromatography (AC)

Product Details

Purpose:	Protein A Resin is an affinity chromatography medium designed for easy, one-step purification of classes, subclasses and fragments of immunoglobulins from biological fluids and from cell culture media.
Characteristics:	Protein A Resin can also be used for immunoprecipitation of proteins,protein complexes or antigens. The recombinant protein A ligand is coupled to 4% agarose. The coupling is optimized to give high binding capacity for immunoglobulins. The static binding capacity of Protein A Resin is greater than 20 mg rabbit IgG/ml settled resin. The dynamic binding capacity will vary depending on several factors such as target antibody, flow rate etc. Ligand: Recombinant Streptococcal protein A expressed in E. coli Number of IgG binding sites per ligand: 5 MW of ligand: Approximately 34 kDa PI of ligand: 5.17 Degree of substitution: Approximately 2 mg protein A/ml settled resin Static binding capacity: >20 mg rabbit IgG/ml settled resin Matrix: spherical agarose, 4% Average particle size: 90 µm (45-165 µm)

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Product Details

Bead Ligand:	Protein A
Bead Matrix:	Agarose beads
Bead Size:	90 µm

Target Details

Target:	Protein A
Abstract:	Protein A Products
Background:	Protein A, a bacterial cell wall protein isolated from Staphylococcus aureus, binds to mammalian IgGs mainly through Fc regions. Native protein A has five IgG binding domains and many other domains with unknown functions. Recombinant protein A contains five high affinity IgG binding domains with other non-essential domains removed to reduce nonspecific binding. Since only the Fc region is involved in binding, the Fab region is available for binding antigens.

Application Details

Comment:	High temperature heating is not recommended. The agarose melts above 65°C.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	1X PBS containing 20% ethanol
Storage:	4 °C
Storage Comment:	Store regenerated Protein A Resin in Binding/Wash Buffer containing 20% ethanol at 2°C to 8°C. Do not freeze.
Expiry Date:	18 months

Publications

Product cited in:	Tu, Xu, Fu, Huang, Wang, Liu, Tao: "Preparation and characterization of novel IgG affinity resin coupling anti-Fc camelid single-domain antibodies." in: **Journal of chromatography. B, Analytical technologies in the biomedical and life sciences**, Vol. 983-984, pp. 26-31, (2015) (PubMed).

Jing, Liu, Wang, Zhao: "The steroid hormone 20-hydroxyecdysone via nongenomic pathway activates Ca2+/calmodulin-dependent protein kinase II to regulate gene expression." in: **The Journal of biological chemistry**, Vol. 290, Issue 13, pp. 8469-81, (2015) (PubMed).

Cheung, Zhu, Lui, Dimitrov, Baron: "Human monoclonal antibody fragments targeting matrilin-3 in growth plate cartilage." in: **Pharmaceutical research**, Vol. 32, Issue 7, pp. 2439-49, (2015) (PubMed).

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Ju, Na, Yu, Kim, Jeong, Jung: "Structural consequences of aglycosylated IgG Fc variants evolved for Fc?RI binding." in: **Molecular immunology**, Vol. 67, Issue 2 Pt B, pp. 350-6, (2015) (PubMed).

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