

Product datasheet

Protein G Agarose (High Affinity) ab193258

Overview

Product name	Protein G Agarose (High Affinity)
Sample type	Cell culture supernatant, Serum, Cell culture media, Ascites Fluid
Product overview	Very high binding capacity (>30 mg IgG/mL). Minimal leaching of ligand. Suitable for column or batch purification of IgG, immunoprecipitation & ChIP (ab193258).

Contents:

Supplied as 50% slurry in 20% Ethanol.

Features:

High binding capacity: Binding of IgG \geq 30 mg human or rabbit IgG/mL Protein G Agarose.

Minimal leaching of the ligand

Flow Rate Tested*: 2.89 mL/min.

*Test condition: = Calculations based on the time required to pass 18 mL of water through 2 mL settled beads (column diameter 1.5 cm).

Maximum Flow Rate**: 1800 cm/hr; minimum leaching of recombinant Protein G.

**NOTE: the highest flow that beads withstand for 1 minute, without collapsing and the pressure reaching 1 MPa.

Usage: Reusable for up to 10 times without significant loss of binding capacity.

These beads are for use in column purification. If used in batch purification, we recommend not exceeding 150 x g when centrifuging.

Store beads at 4°C.

The beads may be damaged above 40°C.

DO NOT FREEZE.

Wash beads 3 times with 3x bead volume of desired buffer before use.

Applications:

- Purification of monoclonal and polyclonal antibodies from culture media, serum, ascites fluid or hybridoma supernatants.
- Isolation of antibody/antigen complexes in immunoprecipitation experiments, since only the Fc region is involved in antibody binding and the Fab region is available for binding antigen.

Notes

Protein G Agarose (High Affinity) beads are specially prepared for high IgG binding by covalently coupling recombinant Protein G to 6% cross-linked agarose beads, the most popular resin for protein affinity purification methods. Protein G is a genetically engineered protein containing three IgG-binding regions of native Protein G. The cell wall binding region, albumin binding region and other non-specific regions have been eliminated from the recombinant Protein G to ensure maximum specific IgG binding. The coupling technique is optimized to give a higher binding capacity for IgG and minimum leaching of recombinant Protein G than standard Protein G agarose beads. The IgG binding capacity of Protein G Agarose (High Affinity) is ≥ 30 mg of human or rabbit IgG per mL of wet beads. The Protein G Agarose (High Affinity) beads display high chemical and physical stability, as well as high flow rate, hydrophilicity and high gel strength.

Tested applications**Suitable for:** IP, Purification**Properties****Storage instructions**

Store at +4°C. Please refer to protocols.

Components	1 ml	5 ml	25 ml	100 ml
Hi-Bind™ Protein G-Agarose	1 x 1ml	1 x 5ml	1 x 25ml	1 x 100ml

Applications

Our [Abpromise guarantee](#) covers the use of **ab193258** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration. Isolation of antibody/antigen complexes in immunoprecipitation experiments, since only the Fc region is involved in antibody binding and the Fab region is available for binding antigen.
Purification		Use at an assay dependent concentration. Purification of monoclonal and polyclonal antibodies from culture media, serum, ascites fluid or hybridoma supernatants.

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