

EZ Pure Protein G High Capacity Resin

Orochem Protein G agarose is a versatile, high-performance affinity resin for a variety of antibody affinity purification methods. The affinity resin consists of recombinant Protein G that has been covalently immobilized at high concentration onto high quality cross-linked 6% beaded agarose. The result is a high-capacity affinity resin that retains functional immobilized Protein G for specific purification of antibodies. In addition to binding other isotypes just as well as Protein A, Protein G shows stronger binding to human IgG3 and mouse IgG1. Protein G is recommended for affinity purification of mouse antibodies (including IgG1) in addition to most IgG isotypes from human (particularly IgG3), goat and sheep samples.



Highlights

High Capacity

Protein G agarose has a dense load of immobilized Protein G providing a binding capacity $\geq 30\text{mg}$ human IgG/mL resin

Recombinant Protein G

Immobilized Protein G is ideal for polyclonal IgG purification from mouse, human, cow, goat and sheep serum, including mouse IgG1 and human IgG3 isotypes

Inert and stable

superior manufacturing method immobilizes Protein G by charge-free, leach-resistant covalent bonds, resulting in low nonspecific binding and enabling multiple uses without decline in yield

Agarose Resin

Support is cross-linked 6% beaded agarose, the most popular resin for protein affinity purification methods

Multiple Formats

A wide variety to choose from bottled resin slurries, spin columns, complete purification kits and high-throughput compatible 96-well filter plates

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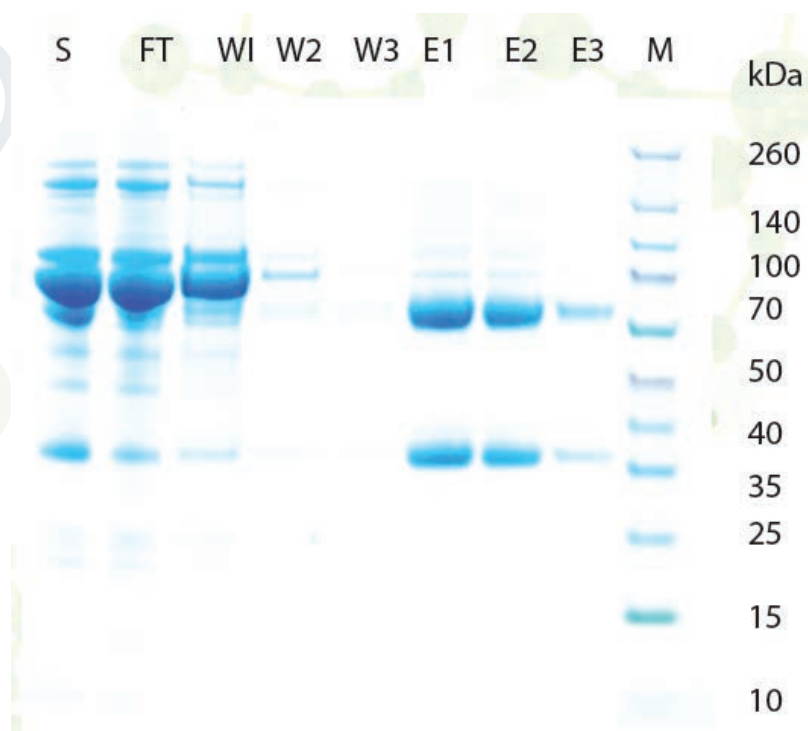


Figure 1: Purification of Mouse IgG from Normal Mouse Serum by Spin Procedure:

Serum (20 mg protein) was applied to Protein G spin column (1mL) and incubated with the resin for 10 minutes at room temperature by gentle end-over-end mixing. The resin was washed with 6 mL of wash buffer and IgG was eluted with 3 mL (3 x 1 mL) of elution buffer. Total time for the spin procedure was 20 minutes. The fractions were analyzed by SDS-PAGE under reducing conditions.

S = Serum load, FT = Flow through, W1-3 = Wash 1-3, E1-3 = Elution 1-3 and M = Molecular Weight Marker

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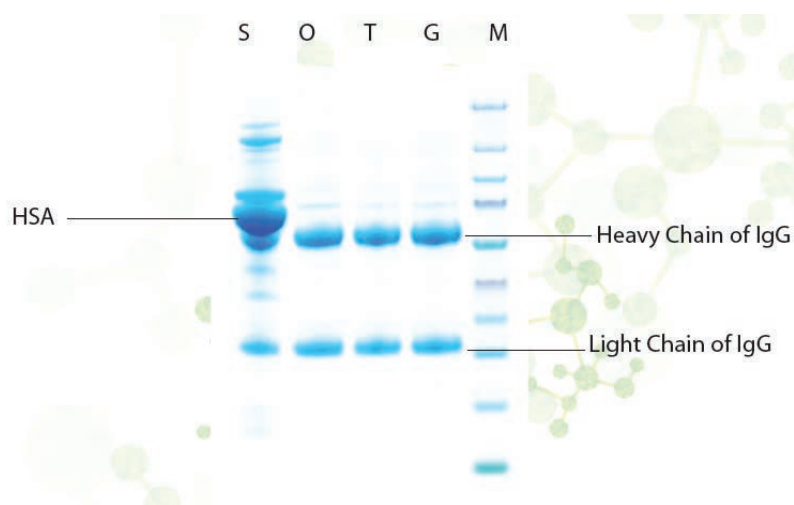


Figure 2: Comparison of Orochem Protein G resin to other supplier's resin:

Serum (20 mg protein) was applied to Protein G spin column (1mL) and incubated with the resin for 10 minutes at room temperature by gentle end-over-end mixing. The resin was washed with 6 mL of wash buffer and IgG was eluted with 3 mL (3 x 1 mL) of elution buffer. The fractions were analyzed by SDS-PAGE under reducing conditions.

S: Serum; O: IgG purified using Orochem resin; T: IgG purified using supplier T resin; G: IgG purified using supplier G resin and M: Molecular weight marker

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Ordering Information:

Please inquire for price.

| Catalog No. | Description | Package Size |
|-------------|---|--------------|
| OCPPGBK-05 | EZ Pure Protein G High Capacity Resin Formulation: Protein G on cross-linked 4% beaded agarose, slurried in water with sodium azide Sufficient For: Binding ≥ 30 mg human IgG/mL resin | 5 mL |
| OCPPGBK-25 | EZ Pure Protein G High Capacity Resin | 25 mL |
| OCPPGBK-100 | EZ Pure Protein G High Capacity Resin | 100 mL |
| OCPPGSC-0.2 | EZ Pure Protein G Spin Columns, 0.2 mL | 10 |
| OCPPGSC-1.0 | EZ Pure Protein G Spin Columns, 1 mL | 5 |
| OCPPGSP96 | EZ Pure Protein G, 96-well plate Formulation: 96-well filter plate containing 50 μ L Protein G Agarose per well; Includes 3 collection plates Sufficient For: Binding approx. 2.5mg human IgG well | 1 |

