



Recombinant Protein A/G
(rProteinA/G)
Catalog #1003-01

Product Description

Protein G similar to Protein A, is an immunoglobulin-binding protein expressed in group C and G *Streptococcal* bacteria but with different specificities. It binds to the constant region of many species of immunoglobulin G and can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. Recombinant Protein A/G is an excellent tool for purification and detection of mouse monoclonal antibodies from IgG subclasses without interference from other serum proteins. Individual subclasses of mouse monoclonals are most likely have stronger affinity to this chimeric protein than to either Protein A or Protein G. Binding is less pH-dependent than either Protein A or Protein G alone. Optimal pH 5-8.

Specifications

Synonyms	Protein A/G, r-protein A/G, protein a/g, protein-a/g, protein-ag, protein ag.
Specificity	Protein A/G binds to all human IgG subclasses, IgA, IgE, IgM and to a lesser extent IgD. Does not bind mouse IgA, IgM or murine serum albumin.
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 56.9 kDa, consisting of 6xHis-tag on C-terminus and 8 IgG-binding domains EDABC (Protein A)-C1C2C3 (Protein G).
Purity	> 95% by SDS-PAGE
Physical Appearance	White lyophilized powder
Endotoxin	<0.1 ng/μg of protein (<1 EU/μg)

Formulation

Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4.

Product Usage

This product is for research use only. It is not approved for use in humans, animals, or *in vitro* diagnostic procedures.

Reconstitution

Reconstitute in sterile distilled water or saline.

Storage

Upon reconstitution, store at 2-8 °C for up to one week. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

Shipping

Gel ice. Store at -20°C after receiving.