

**Recombinant Protein A/G
(rProteinA/G)
Catalog Number: 1003-01**

Description	Protein G, similar to Protein A, is an immunoglobulin-binding protein expressed in group C and G <i>Streptococcal</i> 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 to 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.
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 50.5 kDa, consisting of 7 IgG-binding domains EDABC (from Protein A domain)-C2C3 (from Protein G domain).
Purity	>95% by SDS-PAGE analyses.
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.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized with no additives.
Endotoxin	< 1EU/μg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water or saline.
Storage	Store at -20°C after receiving. 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.
Usage	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.