



Technical Data Sheet

Recombinant Protein A/G

Catalog Number:	RC2114-12
Source:	<i>Escherichia coli</i>
Molecular Weight:	Approximately 50.5 kDa. The recombinant Protein A/G consists of 7 IgG-binding domains EDABC-C2C3, which corresponds to the Protein A and G domains that are included in the recombinant sequence. The Protein A portion is from <i>Staphylococcus aureus</i> segments E, D, A, B and C. The Protein G portion is from <i>Streptococcus</i> segments C2 and C3. The binding capacity of recombinant Protein A/G is broader than either Protein A or Protein G alone.
Quantity:	5mg/100mg/1.0g
Purity:	>95% by SDS-PAGE analyses.
A ₂₈₀ of 0.1% solution:	~0.505
Specificity:	The extended Fc-binding properties of Protein A/G make it a popular tool in the investigation and purification of immunoglobulins. Protein A/G binds to all human IgG subclasses, IgA, IgE, IgM and to a lesser extent IgD; however, it does not bind mouse IgA, IgM or murine serum albumin.
Applications:	Protein A/G is an excellent tool for purification and detection of mouse monoclonal antibodies from IgG subclasses without interference from these 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, occurring well at pH 5-8.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized with no additive.
Endotoxin:	Less than 0.1EU/ug of Protein A/G as determined by LAL method.
Reconstitution:	Dissolve in distilled water or saline.
Storage:	2 years at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
Usage:	This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.