

# Recombinant Protein A/G

<b>CATALOG #:</b>	6502-1	1 mg
	6502-5	5 mg
	6502-25	25 mg
	6502-100	100 mg
	6502-1000	1 g
<b>LOT #:</b>	-----	
<b>SOURCE:</b>	Recombinant expressed in <i>E. coli</i>	
<b>PURITY:</b>	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 EU/mg of Protein A/G.	
<b>MOL. WEIGHT:</b>	59.7 kDa	
<b>THEORETICAL PI:</b>	4.89	
<b>FORM:</b>	Lyophilized	
<b>RECONSTITUTION:</b>	Reconstitution in water to a concentration of 5 mg/ml gives a clear solution.	

## STORAGE CONDITIONS:

Store at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freezing and thawing.

## APPLICATIONS:

Protein A/G is a genetically engineered protein that combines the IgG binding profiles of both Protein A and Protein G. It is a gene fusion product. Recombinant fusion protein A/G contains 6x His-tag on the N-terminus, five Ig-binding regions of protein A fusion with three Ig-binding region of protein G. Cell wall binding region, albumin binding region and other non-specific binding regions have been eliminated from the fusion protein A/G to ensure the maximum specific IgG binding. 6x His-tag on N-terminus can be used for affinity purification or for protein A/G detection using anti-His-tag antibody.

Protein A/G binds to all IgG subclasses from various mammalian species, including all IgGs that bind to both Protein A and Protein G, making it the ideal choice for purification of all kinds of polyclonal or monoclonal IgG antibodies.

## SPECIFICITY:

Under optimal conditions, 1 mg protein A/G will bind approximately 5 mg human IgG. Optimal binding of Protein A/G to antibodies occurs at pH 5.0 to 8.0 and can be eluted over a pH range of 2.5 to 3.0.

**FOR RESEARCH USE ONLY! NOT TO BE USED IN HUMAN SUBJECTS.**

## RELATED PRODUCTS:

### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay Kit
- Total Cholesterol Quantification Kit

### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

### Growth Factors and Cytokines

Quality Antibodies for Apoptosis and Signal Transduction Molecules