

# Recombinant Protein G

<b>CATALOG #:</b>	6510-1	1 mg
	6510-5	5 mg
	6510-10	10 mg
	6510-100	100 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>SEQUENCE:</b>	Amino acid 190-384 of the Streptococcus sp. Protein G Ig binding domains with 6x His-tag on N-terminus. Gene Bank Accession Number CAA27638.	
<b>PURITY:</b>	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 EU/mg of Protein G.	
<b>MOL. WEIGHT:</b>	26.1 kDa	
<b>FORM:</b>	Lyophilized with no additive	
<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 G binds to the constant region of many species of immunoglobulin G. Protein G can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. BioVision's Recombinant Protein G contains only IgG binding domains. The albumin-binding domain as well as cell wall and cell membrane binding domains have been removed to ensure the maximum specific IgG binding capacity. The 6-His-tag on N-terminus can be used for affinity purification or protein G detection using anti-His-tag antibodies.

Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse.

**SPECIFICITY:**

Under optimal conditions, 1 mg protein G will bind approximately 5 mg human IgG. Optimal binding of Protein G to antibodies occurs at pH 5.0 to 6.0 and can be eluted over a pH range of 2.5 to 3.0.

**REFERENCES:**

1. Bengt Guss et al. (1986) The EMBO Journal. 5:1567-1575.
2. Fahnestock (1987) Trends in Biotechnology 5:79.

**RELATED PRODUCTS:**

## Apoptosis Detection Kits &amp; 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

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

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

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- DNA Damage Quantification Kit
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- Akt & JNK Activity Assay Kits
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- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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