

# Protein A/G-Biotin

<b>CATALOG #:</b>	6506-01	100 µg
	6506-1	1 mg
<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>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. Stable, as supplied, for at least 1 year.

## PREPARATION:

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.

Protein A/G-Biotin is prepared by conjugating recombinant Protein A/G to Biotin. The conjugation was optimized to provide the maximal binding capacity for IgG.

## 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.**

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