

# Recombinant Protein G ab49807

[5 References](#) [1 Image](#)

### Description

<b>Product name</b>	Recombinant Protein G
<b>Purity</b>	> 95 % SDS-PAGE. >98% by SDS-PAGE and HPLC analyses. 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.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P19909</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Streptococcus
<b>Sequence</b>	LDKYGVSDYHKNLINNAKTVEGVKDLQAQVVESAKKARIS EATDGLSDFL KSQTPAEDTVKSIELAEAKVLANRELDKYGVSDYYKNLINN AKTVEGVKA LIDEILAALPKTDTYKLILNGKTLKGETTTEAVDAATAEKVFK QYANDNG VDGE
<b>Predicted molecular weight</b>	26 kDa including tags
<b>Amino acids</b>	190 to 384
<b>Tags</b>	His tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab49807** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Affinity Purification
<b>Form</b>	Lyophilized
<b>Additional notes</b>	This product is manufactured by BioVision, an Abcam company and was previously called 6510 Protein G. 6510-1 is the same size as the 1 mg size of ab49807. Protein G can be used to detect, quantify and purify IgG antibodies and antibody/antigen

complexes. The 6-His-tag on N-terminus can be used for affinity purification or protein G detection using anti-His-tag antibodies.

This protein contains only IgG binding domains.

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 7.40

Constituents: 10.269% Trehalose, 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate

## General Info

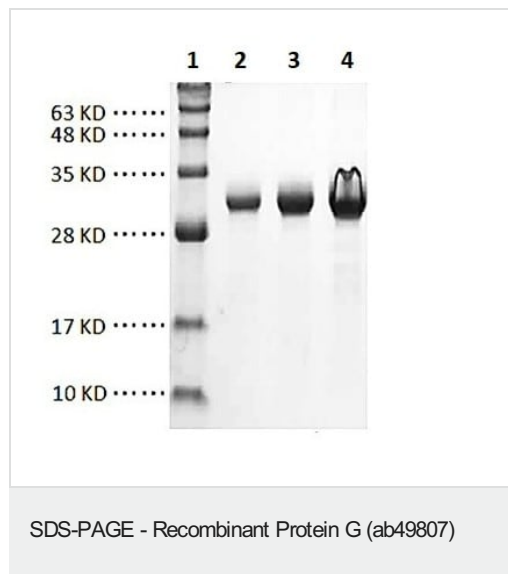
### Relevance

Protein G is a bacterial protein derived from the cell wall of certain strains of *β*-hemolytic *Streptococci*. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. 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. Protein G binds preferentially to the Fc portion of IgG, but can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology.

### Cellular localization

Cell Wall and Secreted

## Images



Different amounts of Recombinant Protein G loaded under reducing conditions and stained with Coomassie Blue. The protein has a predicted molecular weight (MW) of □ 26.1 kDa. However it runs larger on a SDS-PAGE gel. SDS-PAGE (12%) of Recombinant Protein G:

Lane 1: MW Marker

Lane 2 : Protein G ( 2.2 µg)

Lane 3 : Protein G ( 4.4 µg)

Lane 4 : Protein G ( 8.8 µg)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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