

## Product datasheet

# Recombinant human IgG2 protein ab182668

[2 Images](#)

### Description

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<b>Product name</b>	Recombinant human IgG2 protein
<b>Biological activity</b>	Human FCGRT & B2M Heterodimer Protein, His Tag (SPR & BLI verified) captured on CM5 Chip via anti-His antibody can bind ab182668 with an affinity constant of 33.3 nM as determined in SPR assay (Biacore 8K).
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<b><u>P01859</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	ERKCCVECPCPAPPVAGPSVFLFPPKPKDTLMISRTPE VTCVVVDVSHE DPEVQFNWYVDGVEVHNAKTKPREEQFNSTFRVVSFLT VHQDWLNGKEY KCKVSNKGLPAPIEKTISKTKGQPREPQVYTLPPSREEMT KNQVSLTCLV KGFYPSDISVEWESNGQPENNYKTPMLDSDGSFFLYS KLTVDKSRWQQ GNVFSCSVMHEALHNHYTQKSLSLSPGK
<b>Predicted molecular weight</b>	26 kDa
<b>Amino acids</b>	99 to 326

### Specifications

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Our **Abpromise guarantee** covers the use of **ab182668** 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 Surface Plasmon Resonance
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**Form** Lyophilized

**Additional notes** This product is stable after storage at:  
-20°C to -70°C for 12 months in lyophilized state;  
-70°C for 3 months under sterile conditions after reconstitution.

## Preparation and Storage

**Stability and Storage** Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.

pH: 7.30

Constituents: PBS, 12% D-(+)-Trehalose dihydrate

Lyophilized from 0.22 µm filtered solution.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

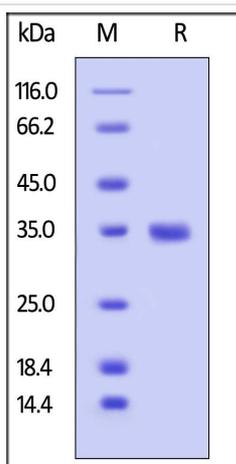
**Reconstitution** Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

## General Info

**Relevance** There are four IgG subclasses (IgG1, 2, 3 and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant). IgG2 is the only IgG subclass which passes through the placenta at a level generally lower than that found in the mother. A deficiency of IgG2 indicates a poor antibody response to bacterial polysaccharides and can lead to increased susceptibility to infections caused by encapsulated bacteria.

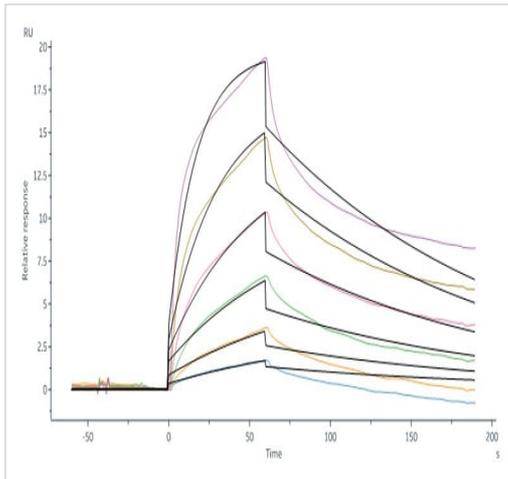
**Cellular localization** Secreted

## Images



Human IgG Fc (Tag Free) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The protein migrates as 33-35 kDa due to glycosylation.

SDS-PAGE - Recombinant human IgG2 protein  
(ab182668)



Surface Plasmon Resonance - Recombinant human IgG2 protein (ab182668)

Human FCGRT & B2M Heterodimer Protein, His Tag (SPR & BLI verified) captured on CM5 Chip via anti-His antibody can bind ab182668 with an affinity constant of 33.3 nM as determined in SPR assay (Biacore 8K).

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

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