

## Product datasheet

# Recombinant Human IgG4 Fc Protein, Tag Free (Active) ab181968

[2 Images](#)

### Description

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<b>Product name</b>	Recombinant Human IgG4 Fc Protein, Tag Free (Active)
<b>Biological activity</b>	Human FCGRT&B2M Heterodimer Protein, His Tag (SPR & BLI verified) captured on CM5 Chip via anti-His antibody can bind ab181968 with an affinity constant of 0.715 $\mu$ M as determined in SPR assay (Biacore).
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Endotoxin level</b>	< 1.000 Eu/ $\mu$ g
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<b><u>P01861</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	ESKYGPPCPSCPAPEFLGGPSVFLFPPKPKDTLMISRTPE VTCVVVDVSQ EDPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLT VLHQDWLNGKE YKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPSQEEM TKNQVSLTCL VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLY SRLTVDKSRWQ EGNVFSCSVMEALHNHYTQKSLSLGLK
<b>Predicted molecular weight</b>	26 kDa
<b>Amino acids</b>	99 to 327
<b>Additional sequence information</b>	Fc Region.
<b>Description</b>	Recombinant human IgG4 protein (Active)

### Specifications

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Our **Abpromise guarantee** covers the use of **ab181968** 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>	Surface Plasmon Resonance SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	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.

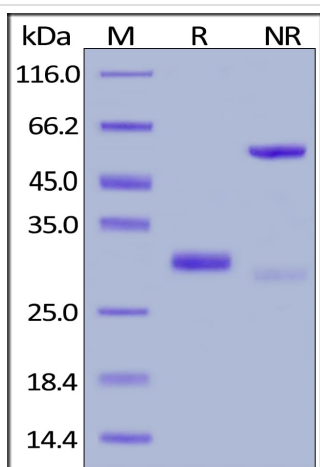
## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). pH: 7.4 Constituents: 0.41% Tris, 0.51% Glycine, 6.8% Trehalose, 0.04% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with sterile deionized water to a concentration of 500 µg/ml.

## General Info

<b>Relevance</b>	IgG4 antibodies will dominate the IgG response in schistosomiasis, lymphatic filariasis, and in patients after allergen immunotherapy. Unlike the other IgG subclasses, IgG4 does not activate complement. A combined IgA-IgG4 deficiency has been associated with recurrent pyogenic infections.
<b>Cellular localization</b>	Secreted

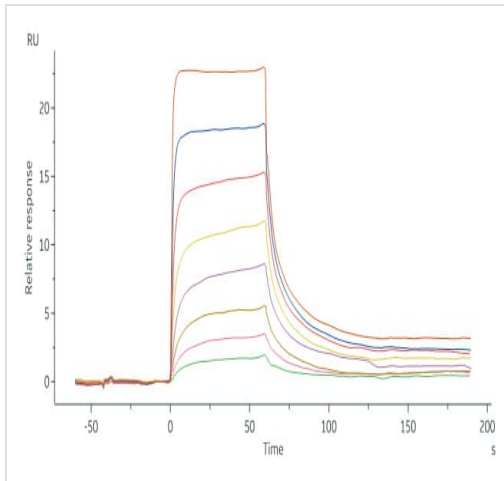
## Images



SDS-PAGE of DTT-reduced (lane 1) and non-reduced (lane 2) ab181968 stained overnight with Coomassie Blue.

As a result of glycosylation, DTT-reduced (R) protein migrates as 30-32 kDa and non-reduced (NR) protein migrates as 28-30 and 55-60 kDa.

SDS-PAGE - Recombinant Human IgG4 protein  
(ab181968)



Human FCGRT&B2M Heterodimer Protein, His Tag (SPR & BLI verified) captured on CM5 Chip via anti-His antibody can bind ab181968 with an affinity constant of 0.715  $\mu\text{M}$  as determined in SPR assay (Biacore).

Surface Plasmon Resonance - Recombinant human IgG4 protein (Active) (ab181968)

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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