

# Human Fc gamma RIIIB/CD16b (NA1) Protein

Cat. No. FCR-HM11B

## Description

<b>Source</b>	Recombinant Human Fc gamma RIIIB/CD16b (NA1) Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly17-Ser200(NA1).
<b>Accession</b>	AAA35881.1
<b>Molecular Weight</b>	The protein has a predicted MW of 22.52 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

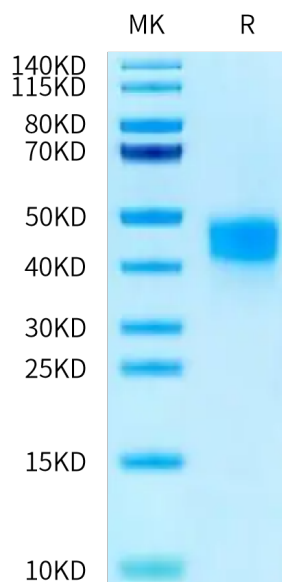
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Human Fc gamma RIIIB/CD16b Protein is a receptor for the Fc region of immunoglobulins gamma. Low affinity receptor. Binds complexed or aggregated IgG and also monomeric IgG. Contrary to III-A, is not capable to mediate antibody-dependent cytotoxicity and phagocytosis. May serve as a trap for immune complexes in the peripheral circulation which does not activate neutrophils.

## Assay Data

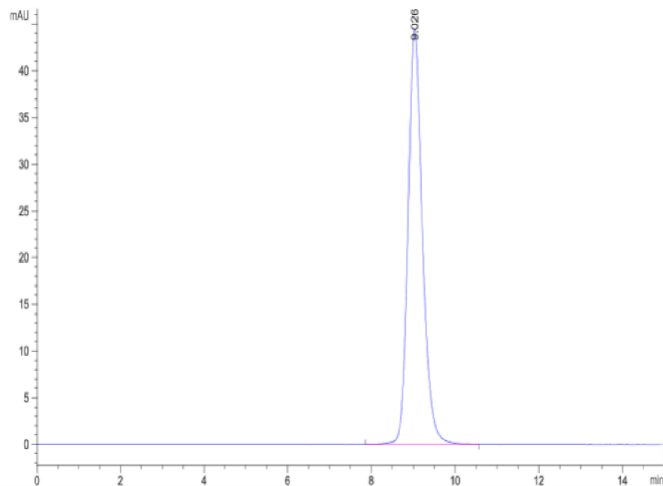
### Bis-Tris PAGE



Human Fc gamma RIIIB (NA1) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

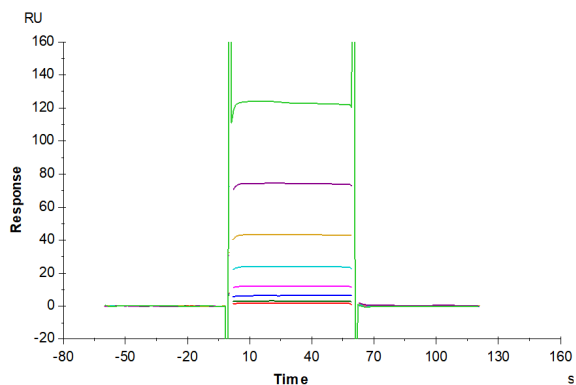
### SEC-HPLC

Assay Data



The purity of Human Fc gamma RIIIB (NA1) is greater than 95% as determined by SEC-HPLC.

SPR Data



Human Fc gamma RIIIB (NA1), His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of 8.55  $\mu$ M as determined in SPR assay (Biacore T200).