

# Biotinylated Human Fc gamma RIIIB/CD16b (NA1) Protein

Cat. No. FCR-HM41BB

## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Biotinylated Human Fc gamma RIIIB/CD16b (NA1) Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.<br>It contains Gly17-Ser200. |
| <b>Accession</b>        | AAA35881.1  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 23.81 kDa. Due to glycosylation, the protein migrates to 43-53 kDa based on Tris-Bis PAGE result.                                 |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE<br>> 95% as determined by HPLC   |

## Formulation and Storage

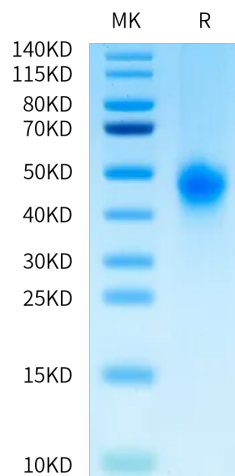
|                       |  |
|-----------------------|--|
| <b>Formulation</b>    | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration 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 3-6 months after reconstitution. 2-8°C for 2-7 days 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

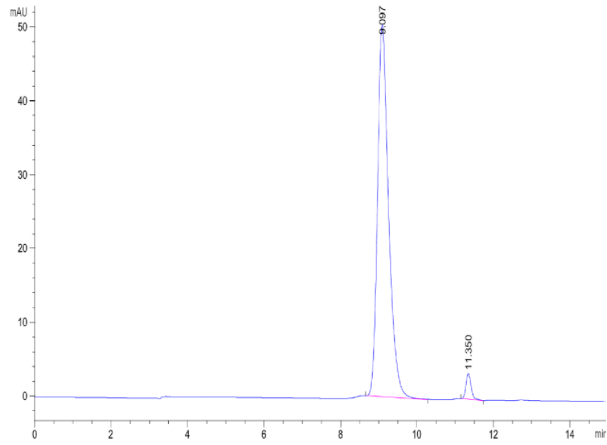
### Tris-Bis PAGE



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

### SEC-HPLC

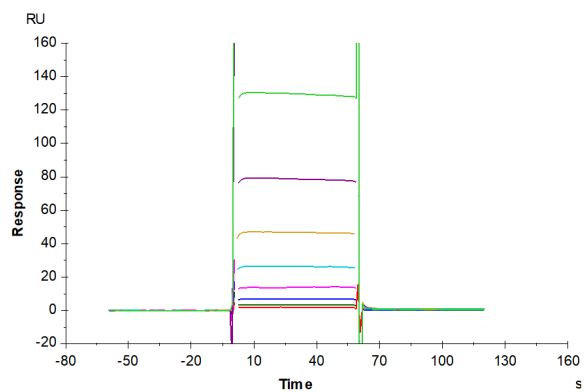
Assay Data



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

Assay Data

SPR Data



Biotinylated Human Fc gamma RIIIB (NA1), His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of 8.00  $\mu$ M as determined in SPR assay (Biacore T200).