

Human Fc gamma RIIIB/CD16b (NA1) Protein

Cat. No. FCR-HM11B

Description

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

Formulation and Storage

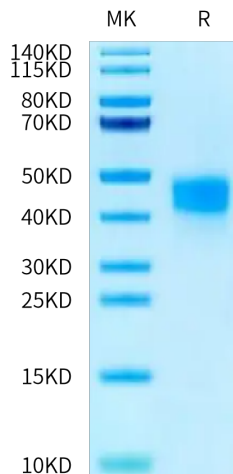
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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

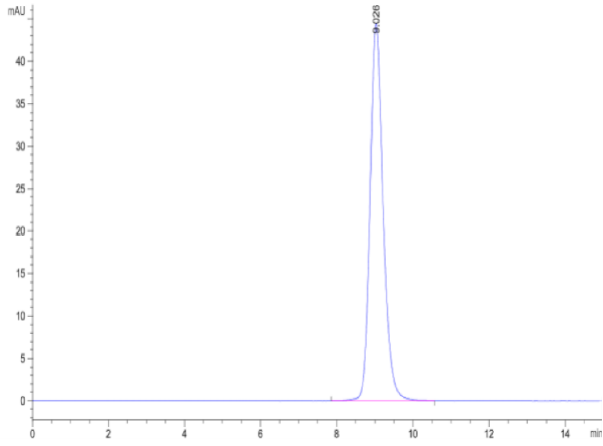
Tris-Bis PAGE



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

SEC-HPLC

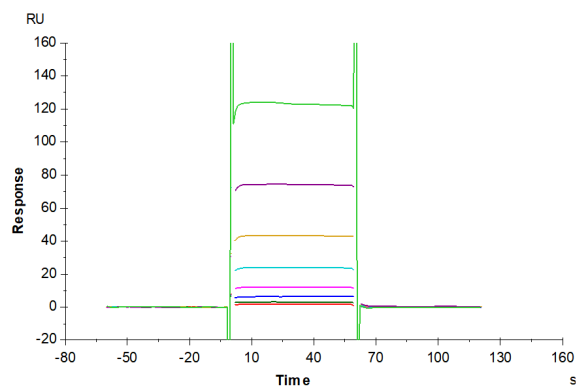
Assay Data



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

Assay Data

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 μ M as determined in SPR assay (Biacore T200).