

Cat. No. FCR-HM42B-UL

Description	
Source	Recombinant Human Fc gamma RIIIB/CD16b (NA2) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly17-Ser200(NA2). The CD16b NA1 differ with the CD16b NA2 in AA36, 65, 82, and 106. The CD16b NA1 form carries R36, N65, D82, and V106, while the CD16b NA2 form carries S36,S65, N82, and I106.
Accession	O75015-1
Molecular Weight	The protein has a predicted MW of 23.7 kDa. Due to glycosylation, the protein migrates to 47-53 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

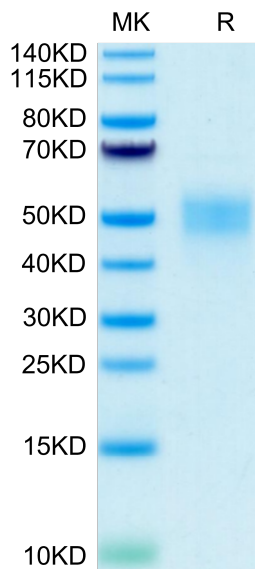
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

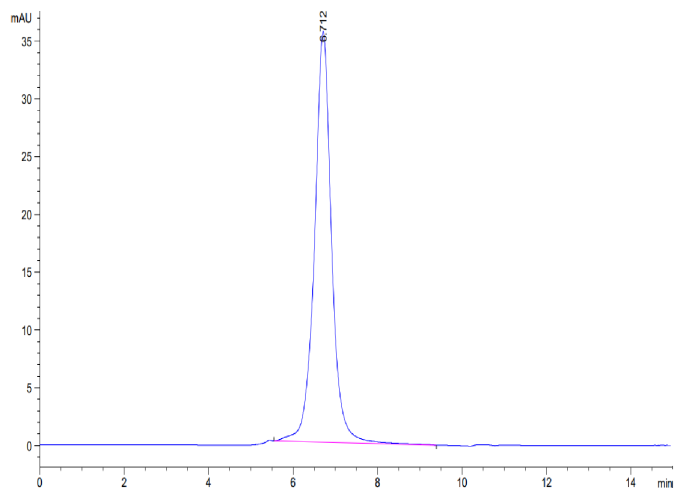
Bis-Tris PAGE



Human Fc gamma RIIIB (NA2) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

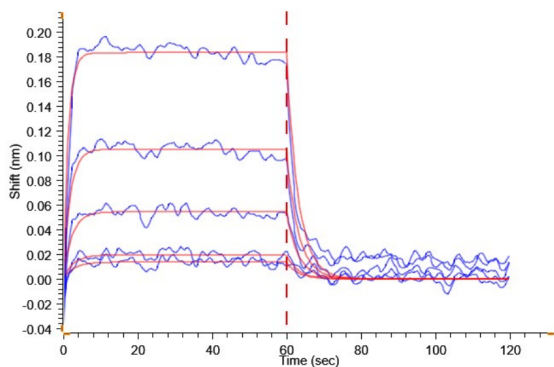
SEC-HPLC

Assay Data



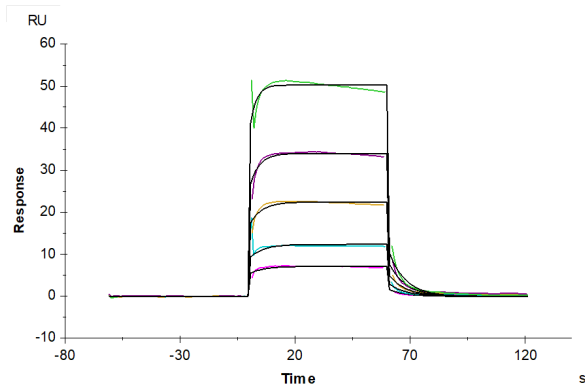
The purity of Human Fc gamma RIIIB (NA2) is greater than 95% as determined by SEC-HPLC.

BLI Data



Loaded Human Fc gamma RIIIB (NA2), His Tag on Anti-His-Biosensor, can bind Rituximab, hFc Tag with an affinity constant of 2.87 μM as determined in BLI assay (Gator).

SPR Data



Human Fc gamma RIIIB (NA2), His Tag captured on CM5 Chip via Anti-his antibody can bind Rituximab with an affinity constant of 2.33 μM as determined in SPR assay (Biacore T200).