

Active Recombinant Human FCGR3B Protein, His-Avi-tagged, Biotinylated

Cat. No. FCGR3B-354H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human CD16b (NA2), His Tag, Avi Tag is expressed from HEK293 cells. It contains AA Gly 17 - Ser 200 (Accession # O75015). This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag.
Species	Human
Source	HEK293
ProteinLength	17-200 a.a.
Predicted N Terminal	Gly 17
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	Immobilized Biotinylated Human CD16b (NA2), His Tag, Avi Tag on SA Chip can bind Rituximab with an affinity constant of 6.66 uM as determined in a SPR assay (Biacore T200). Immobilized Biotinylated Human CD16b (NA2), His Tag, Avi Tag on Series S Sensor Chip CAP via Biotin Capture can bind Rituximab with an affinity constant of 4.22 uM as determined in a SPR assay (Biacore T200).
Molecular Mass	The protein has a calculated MW of 24.5 kDa. The protein migrates as 37-55 kDa under reducing condition (SDS-PAGE) due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Characteristic	Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	FCGR3B Fc fragment of IgG, low affinity IIIb, receptor (CD16b) [Homo sapiens]
Official Symbol	FCGR3B
Synonyms	FCGR3B; Fc fragment of IgG, low affinity IIIb, receptor (CD16b); Fc fragment of IgG, low affinity IIIb, receptor for (CD16) , FCG3, FCGR3; low affinity immunoglobulin gamma Fc region receptor III-B; CD16; CD16b; fc-gamma RIII; fc-gamma RIIIb; fc-gamma RIII-beta; igG Fc receptor III-1; Fc-gamma receptor IIIb (CD 16); Fc fragment of IgG, low affinity IIIb, receptor for (CD16); FCG3; FCGR3; FCR-10; FCRIII; FCRIIIb;
Gene ID	2215

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mRNA Refseq	NM_000570
Protein Refseq	NP_000561
MIM	610665
UniProt ID	O75015

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