

## Active Recombinant Human FCGR3B Protein (NA1) (Gly 17 - Ser 200), His-tagged

**Cat. No.** FCGR3B-314H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human FCGR3B Protein (NA1), His-tagged is expressed from human HEK293 cells. It contains AA Gly 17 - Ser 200 (Accession # AAA35881.1). The NA1 form of the CD16b differ with the NA2 form of CD16b in AA36, 65, 82, and 106. The NA1 form carries R36, N65, D82, and V106, while the NA2 form carries S36, S65, N82, and I106. Predicted N-terminus: Gly 17. This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 22.8 kDa. The protein migrates as 35-45 KDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Species** Human

**Source** HEK293

**ProteinLength** Gly 17 - Ser 200

**Form** Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

**Bio-activity** Recombinant Human FCGR3B Protein (NA1), His-tagged on CM5 Chip via anti-His antibody , can bind Rituximab with an affinity constant of 8.17 µM as determined in a SPR assay (Biacore T200) (QC tested).

**Molecular Mass** 22.8 kDa

**Endotoxin** Less than 1.0 EU per

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|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | µg by the LAL method.                                                                                                                                                                  |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                                        |
| <b>Notes</b>          | Please avoid repeated freeze-thaw cycles.                                                                                                                                              |
| <b>Stability</b>      | No activity loss is observed after storage at:<br>4-8 centigrade for 12 months in lyophilized state;<br>-70 centigrade for 3 months under sterile conditions after reconstitution.     |
| <b>Storage</b>        | For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.                                                                                   |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |

## GENE INFORMATION

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FCGR3B Fc fragment of IgG, low affinity IIIb, receptor (CD16b) [ Homo sapiens ] |
| <b>Official Symbol</b> | FCGR3B                                                                          |
| <b>Synonyms</b>        | FCGR3B; CD16; CD16b; fc-gamma RIII; FCG3; FCGR3; FCR-10; FCRIII; FCRIIIb;       |
| <b>Gene ID</b>         | 2215                                                                            |
| <b>mRNA Refseq</b>     | NM_000570                                                                       |
| <b>Protein Refseq</b>  | NP_000561                                                                       |

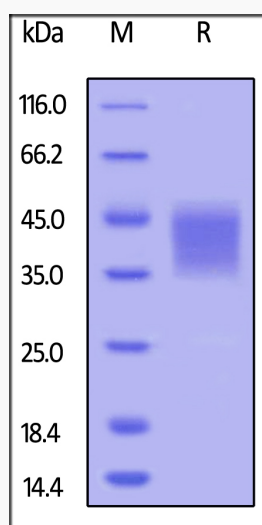
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MIM 610665

UniProt ID O75015



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