

Active Recombinant Human FCGR2B, His-tagged

Cat. No. FCGR2B-3820H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain (Ala 46 - Ile 224) of mature human CD32b protein was fused with a signal peptide at the N-terminus and a c-terminal polyhistidine tagged AVI tag at the C-terminus.
Species	Human
Source	Human Cells
ProteinLength	46-224 a.a.
Description	The protein encoded by this gene is a low affinity receptor for the Fc region of immunoglobulin gamma complexes. The encoded protein is involved in the phagocytosis of immune complexes and in the regulation of antibody production by B-cells. Variations in this gene may increase susceptibility to systemic lupus erythematosus (SLE). Several transcript variants encoding different isoforms have been found for this gene.
Predicted N Terminal	Ala 46
Form	Lyophilized from sterile PBS , pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Bio-activity	Immobilized human CD32b-AVI-His at 10 µg/ml (100 µl/well) can bind biotinylated Human IgG1, The EC50 of biotinylated Human IgG1 is 0.20-0.48 µg/ml.

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Molecular Mass	The recombinant mature human CD32b consists of 214 amino acids after proteolytic removal of the signal peptide and predicts a molecular mass of 24 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 30-35 kDa protein due to glycosylation
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	FCGR2B Fc fragment of IgG, low affinity IIb, receptor (CD32) [Homo sapiens (human)]
Official Symbol	FCGR2B
Synonyms	Fc fragment of IgG, low affinity IIb, receptor (CD32); CD32; FCG2; CD32B; FCGR2; IGFR2; FCGR2B; Fc fragment of IgG, low affinity IIb, receptor; Fc gamma RIIb; Fc fragment of IgG, low affinity II, receptor for (CD32); Fc fragment of IgG, low affinity IIb, receptor for (CD32); CDw32; Fc-gamma-RIIb; FcRII-b; OTTHUMP00000032379; CD32 antigen; Fc-gamma RII-b; IgG Fc receptor II-b
Gene ID	2213

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mRNA Refseq	NM_001002274
Protein Refseq	NP_001002274
MIM	604590
UniProt ID	P31994
Chromosome Location	1q23
Pathway	Adaptive Immune System; B cell receptor signaling pathway; BCR signaling pathway
Function	IgG binding; protein binding

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