

Recombinant Human FCGR2B Protein, His tagged, APC Labeled

Cat. No. FCGR2B-164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CD32b/c /Fc gamma RIIB (Ala46-Pro217) with C-terminus His-tag is expressed in CHO cell and conjugated to APC.
Species	Human
Source	CHO
ProteinLength	APC
Conjugation/Label	46-217 aa
Description	CD32B (FCGR2B) and CD32C (FCGR2C) are 40 kDa, type I transmembrane proteins belonging to the Ig superfamily of low-affinity IgG Fc receptors. CD32B contains an immunoreceptor tyrosine-based inhibition motif (ITIM) in its cytoplasmic tail, while CD32C has an immunoreceptor tyrosine-based activation motif (ITAM). Both receptors can bind monomeric IgG and IgG complexes, and are expressed on B cells, monocytes, macrophages, granulocytes, platelets, and mast cells. CD32B primarily acts as a negative regulator, inhibiting immune cell activation, proliferation, endocytosis, phagocytosis, and degranulation. In contrast, CD32C has an activating function, contributing to immune responses. Together, they play crucial roles in regulating immune cell functions and maintaining immune homeostasis. CD32B and CD32C share almost identical extracellular domain. The aa sequence of Fc gamma RIIB and Fc gamma RIIC are the same for the region expressed (Ala46-Pro217)

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Form	Liquid, 1×PBS buffer, pH7.4, 0.09% NaN ₃ with a carrier protein
Molecular Mass	The protein has a predicted molecular weight of 20.9 kDa. Under DTT-reducing conditions, it migrates at approximately 35 kDa on SDS-PAGE prior to conjugation.
Applications	Flow Cytometry
Storage	Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8 centigrade for up to six months.
Concentration	25 µg size is bottled at 0.1 mg/mL concentration. 100 µg size is bottled at lot specific concentration.
GENE INFORMATION	
Gene Name	FCGR2B Fc fragment of IgG, low affinity IIb, receptor (CD32) [Homo sapiens (human)]
Official Symbol	FCGR2B
Synonyms	FCGR2B; Fc fragment of IgG, low affinity IIb, receptor (CD32); Fc fragment of IgG, low affinity IIb, receptor for (CD32), FCG2, FCGR2; low affinity immunoglobulin gamma Fc region receptor II-b; CD32; CD32B; CDw32; fcRII-b; Fc gamma RIIb; fc-gamma-RIIb; fc-gamma RII-b; igG Fc receptor II-b; Fc fragment of IgG, low affinity II, receptor for (CD32); Fc fragment of IgG, low affinity IIb, receptor for (CD32); FCG2; FCGR2; IGFR2;
Gene ID	2213
mRNA Refseq	NM_001002273

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Protein Refseq	NP_001002273
MIM	604590
UniProt ID	P31994

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