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Biotin Human CD32b/c (FcγRIIB) Protein (C-His-Avi)

Catalog Number:	820503, 820504
Size:	25 ug, 100 ug
Target Name:	CD32b/c, FCGR2B, C, FcRII-b, c, CD32, FCG2, IGFR4
Regulatory Status:	RUO

PRODUCT DETAILS

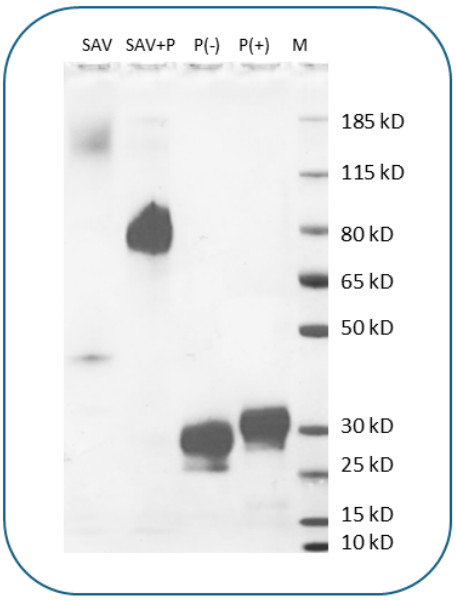
Application:	ELISA, BLI
Format:	Liquid, Biotinylated
Expression Host:	CHO
Species:	Human
Sources:	Recombinant CD32b/c /Fc gamma RIIb (Ala46-Pro217) with C-terminus Avi-His-tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
Accession Number:	P31994
Molecular Weight:	The protein has a predicted molecular weight of 23.5 kDa. Under DTT-reducing conditions, it migrates at approximately 35 kDa on SDS-PAGE.
Affinity Tag:	C-Avi-His
Purity:	>95% based on SDS-PAGE under reducing condition
Formulation:	1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level:	Less than 0.1 EU/μg protein as determined by the LAL method
Protein Concentration:	25μg size is bottled at 0.2mg/mL concentration. 100 μg size is supplied at a lot-specific concentration.
Storage and Handling:	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ –70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

BACKGROUND INFORMATION

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)

PRODUCT DATA



Human CD32b/c /Fc gamma RIIb (C-His-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P+) and non-reducing (P−) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the CD32b /c /Fc gamma RIIb protein exceeds 95%.

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