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FCGR2B Protein (AA 46-217) (His-Avi Tag)

3 Images



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Quantity:	250 μg
Target:	FCGR2B
Protein Characteristics:	AA 46-217
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR2B protein is labelled with His-Avi Tag.
Application:	SDS-PAGE (SDS), Surface Plasmon Resonance (SPR), Size-exclusion chromatography-High Pressure Liquid Chromatography (SEC-HPLC)

Product Details

Purpose:	Human Fc gamma RIIb / CD32b protein	
Sequence:	APPKAVLKLE PQWINVLQED SVTLTCRGTH SPESDSIQWF HNGNLIPTHT QPSYRFKANN	
	NDSGEYTCQT GQTSLSDPVH LTVLSEWLVL QTPHLEFQEG ETIVLRCHSW KDKPLVKVTF	
	FQNGKSKKFS RSDPNFSIPQ ANHSHSGDYH CTGNIGYTLY SSKPVTITVQ APGGGLNDIF	
	EAQKIEWHEG GGENLYFQSG GHHHHHHHHH H	
Specificity:	IgG	
Characteristics:	The sequence of the extracellular domain of human CD32b (Ala 46-Pro 217) was fused with a	
	C-terminal tag consisting of the AVI tag, TEV protease recognition sequence and a 10-His tag.	
Purification:	Nickel and SEC	
Purity:	> 95 % by SEC-HPLC	

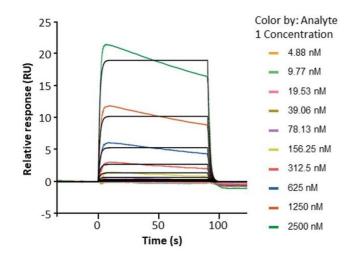
Product Details

Endotoxin Level:	<1.0 EU per mg	
Biological Activity Comment:	Measured by its binding affinity in a SPR assay on a Biacore 8k instrument. Human Fc gamma RIIb / CD32b protein, immobilized on a CM5 chip via an anti-His antibody, can bind to anti-HER2 human IgG1 (trastuzumab) with an affinity constant (KD) of 15 μ M.	
Target Details		
Target:	FCGR2B	
Alternative Name:	CD32b (FCGR2B Products)	
Background:	CD32B, FCGR2B, FCGRIIB, FCR2B, FCRIIB, IGFR2B, IGFRIIB Background: Low affinity immunoglobulin gamma Fc receptor IIb, also known as FcyRIIb or CD32b, is a type I integral membrane glycoprotein. CD32b is a member of the immunoglobulin superfamily and is expressed on B cells, subsets of monocytes, macrophages and granulocytes, platelets and mast cells. CD32b binds monomeric IgG with low affinity but is efficient at binding immune complexes and is a negative regulator of cell activation, proliferation, endocytosis, phagocytosis, and degranulation. CD32b is structurally composed of two extracellular immunoglobulin domains of the C2-type that interact with the IgG Fc domain, a transmembrane domain and a short cytoplasmic tail containing the immunoreceptor tyrosine-based inhibition (ITIM) motif. The product provided only contains the extracellular portion of CD32.	
Molecular Weight:	23.8 kDa	
UniProt:	P31994	
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Production of Molecular Mediator of Immune Response, BCR Signaling	
Application Details		
Application Notes:	Optimal working dilution should be determined by the investigator.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	To obtain a final concentration of 1 mg/mL reconstitute 250 µg vials with 250 µL water and 1.0 mg vials with 1.0 mL water. Solubilize for 30 to 60 minutes at room temperature with	

Handling

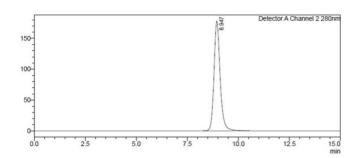
	occasional gentle mixing. Do not vortex.	
Concentration:	1 mg/mL	
Buffer:	PBS pH 7.2-7.4 (140 mM NaCl, 2.7 mM KCl, 10 mM Na2HPO4, 1.8 mM KH2PO4)	
Preservative:	Without preservative	
Storage:	RT,4 °C,-20 °C,-80 °C	
Storage Comment:	Lyophilized proteins are stable at ambient temperature for at least 2 weeks. If the protein is not	
	to be used immediately then the protein should be stored in lyophilized form at -20 °C for up 12	
	months. Once the protein has been reconstituted we recommend storage at 4 °C for up to one	
	week. For longer term storage of protein in solution we recommend aliquoting into smaller vials	
	to avoid repeated freeze-thaw cycles and storage at -20 or -80 °C for up to 3 months. To avoid	
	surface adsorption loss and inactivation we strongly recommend that the protein should not be	
	aliquoted in less than 10 μg per vial.	
Expiry Date:	12 months	

Images



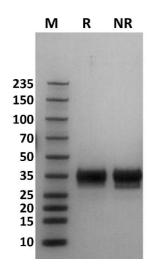
Surface Plasmon Resonance

Image 1. Assessment of binding of human Fc gamma RIIb / CD32b, immobilized on a CM5 chip via an anti-His antibody, to anti-HER2 human IgG1 (trastuzumab) using a Biacore 8K instrument. The protein binds with an affinity constant (KD) of 15 μ M.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. Assessment of protein purity for human Fc gamma RIIb / CD32b protein by SEC-HPLC. The protein is greater than 95 % pure.



SDS-PAGE

Image 3. Human Fc gamma RIIb / CD32b protein on Coomassie Blue stained SDS-PAGE under non-reducing (NR) and reducing (R) conditions. The purity of the protein is greater than 95 %.