

Human CD16a (FcγRIIIa) Protein (C-His-Avi, 176V)

Catalog Number:	800201, 800202
Size:	25 ug, 100 ug
Target Name:	CD16A,FCGR3A, FCG3, FCGR3, IGFR3,
Regulatory Status:	RUO

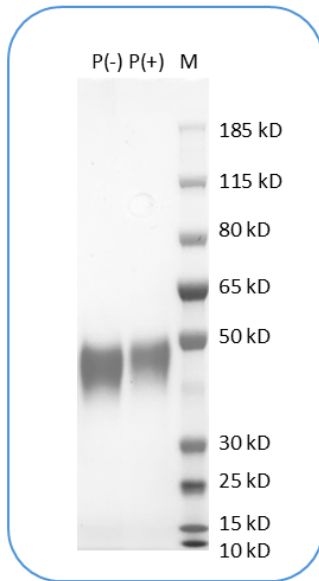
PRODUCT DETAILS

Application:	ELISA, BLI
Format:	Liquid, Purified
Expression Host:	HEK293
Species:	Human
Sources:	Human CD16a protein (Accession Number NP_P08637-1, natural variant Val176) (Gly17-Gln208) with C-terminus His tag and Avi tag is expressed in HEK293 cells.
Accession Number:	P08637
Molecular Weight:	The 227 amino acid protein has a predicted molecular weight of 25.5 kDa. The protein migrates at approximately 40-50 kDa on SDS-PAGE with DTT-reduced conditions.
Affinity Tag:	C-His-Avi
Purity:	>95% based on SDS-PAGE under reducing condition
Formulation:	1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level:	Not tested
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.

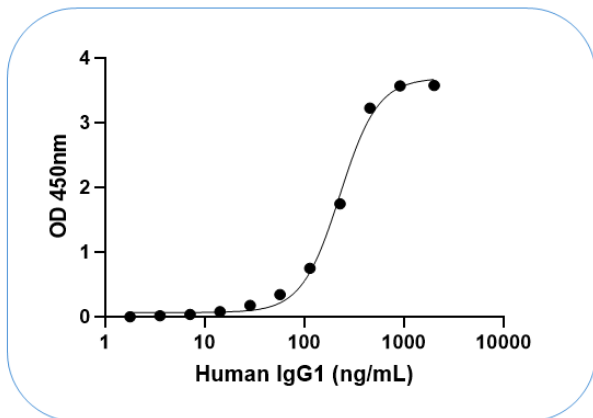
BACKGROUND INFORMATION

CD16 is a low-affinity Fc receptor and exists in two isoforms: FcγRIIIa (CD16a) and FcγRIIIb (CD16b). These receptors bind to the Fc region of IgG antibodies with distinct tissue-specific expression pattern. CD16a is a transmembrane glycoprotein with intermediate affinity, expressed on natural killer (NK) cells, macrophages, subsets of T cells, immature thymocytes, and placental trophoblasts. In contrast, CD16b is a low-affinity, GPI-anchored receptor expressed primarily on neutrophils and eosinophils. CD16a plays a key role in mediating phagocytosis, antibody-dependent cellular cytotoxicity (ADCC), enzyme secretion, and immune complex clearance.

PRODUCT DATA



Human CD16a protein (C-His-Avi, 176V) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%.



Human CD16a (176V) is coated at 8 μg_mL (0.8 μg_well). Human IgG1 can bind human CD16a (176V) in the dose dependent manner. The ED50 is about 100-400 ng_mL .

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