

Active Recombinant Human FCGR2A Protein, His-tagged, Biotinylated

Cat. No. FCGR2A-260H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human Fc gamma RIIA / CD32a (H131) (CDA-H82E6) is expressed from human HEK293 cells. It contains AA Ala 36 - Ile 218 (Accession # P12318-1).
Species	Human
Source	HEK293
ProteinLength	36-218 a.a.
Predicted N Terminal	Ala 36
Form	Lyophilized from sterile PBS, pH7.4, 10% Trehalose.
Bio-activity	The bioactivity is measured by its binding ability to Ipilimumab in a SPR assay. Immobilized Human FcGR2A / CD32a (H131), His Tag can bind Ipilimumab with affinity constant of around 2.3 uM. Measured by its binding ability in a functional ELISA against immobilized Yervoy Ipilimumab (0.5 ug/well). The linear range is 0.5-16 ng/mL.
Molecular Mass	This protein carries an Avi tag at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 24 kDa. The protein migrates as 30-38 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>90% 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~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	FCGR2A Fc fragment of IgG, low affinity IIa, receptor (CD32) [Homo sapiens]
Official Symbol	FCGR2A
Synonyms	FCGR2A; Fc fragment of IgG, low affinity IIa, receptor (CD32); Fc fragment of IgG, low affinity IIa, receptor for (CD32) , FCG2, FCGR2, FCGR2A1; low affinity immunoglobulin gamma Fc region receptor II-a; CD32; CD32A; CDw32; IGFR2; Immunoglobulin G Fc receptor II; fcRII-a; fc-gamma-RIIa; fc-gamma RII-a; igG Fc receptor II-a; FCG2; FcGR; FCGR2; FCGR2A1; MGC23887; MGC30032;
Gene ID	2212
mRNA Refseq	NM_001136219
Protein Refseq	NP_001129691
MIM	146790

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UniProt ID	P12318
Chromosome Location	1q23
Pathway	Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Leishmaniasis, organism-specific biosystem; Leishmaniasis, conserved biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem; Phagosome, organism-specific biosystem;
Function	IgG binding; receptor activity;

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