Active Recombinant Human FCGR2A protein, His-tagged

Cat. No. FCGR2A-1134H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCGR2A protein(P12318-1)(Met1-Ile218,167Arg), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-218 a.a.
Form	Lyophilized from sterile PBS, pH 7.5Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Measured by its ability to bind biotinylated human IgG2 in functional ELISA.2.Loaded Rituximab (IgG1) on ProA Biosensor, can bind Human FcγRIIA / CD32a (R167) recombinant protein with an affinity constant of 2.3 μM as determined in a BLI assay (ForteBio Octet Red384).3.Loaded Human FcγRIIA / CD32a (R167) recombinant protein on His1K Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 0.65 μM as determined in a BLI assay (ForteBio Octet Red384).4.Captured Bevacizumab (IgG1) on proA Chip can bind Human FcγRIIA / CD32a (R167) recombinant protein with an affinity constant of 0.79 μM as determined in an SPR assay (Biacore T200).

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Molecular Mass	The recombinant human FCGR2A consists of 196 amino acids after removal of the signal peptide and predicts a molecular mass of 22 kDa. It migrates as an approximately 30 kDa protein due to glycosylation by SDS-PAGE under reducing conditions.
Proteinlength	Met1-Ile218,167Arg
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°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.

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

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mRNA Refseq	NM_001136219
Protein Refseq	NP_001129691
MIM	146790
UniProt ID	P12318

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