

## Active Recombinant Human FCGR2A protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FCGR2A protein(P12318-1)(Met1-Ile218,167Arg), fused with His tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-218 a.a.
<b>Form</b>	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.
<b>Bio-activity</b>	1. Measured by its ability to bind biotinylated human IgG2 in functional ELISA.2.Loaded Rituximab (IgG1) on ProA Biosensor, can bind Human FcyRIIA / CD32a (R167) recombinant protein with an affinity constant of 2.3 $\mu$ M as determined in a BLI assay (ForteBio Octet Red384).3.Loaded Human FcyRIIA / CD32a (R167) recombinant protein on His1K Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 0.65 $\mu$ M as determined in a BLI assay (ForteBio Octet Red384).4.Captured Bevacizumab (IgG1) on proA Chip can bind Human FcyRIIA / CD32a (R167) recombinant protein with an affinity constant of 0.79 $\mu$ M as determined in an SPR assay (Biacore T200).

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<b>Molecular Mass</b>	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.
<b>Proteinlength</b>	Met1-Ile218,167Arg
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Gene Name</b>	FCGR2A Fc fragment of IgG, low affinity IIa, receptor (CD32) [ Homo sapiens ]
<b>Official Symbol</b>	FCGR2A
<b>Synonyms</b>	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;
<b>Gene ID</b>	2212

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<b>mRNA Refseq</b>	NM_001136219
<b>Protein Refseq</b>	NP_001129691
<b>MIM</b>	146790
<b>UniProt ID</b>	P12318

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