

Active Recombinant Human FCGR2A (R167H) Protein (30-218aa), C-His-tagged

Cat. No. FCGR2A-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Fc gamma RIIA/CD32a (30-218aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	30-218 aa
Description	Fc gamma RIIA/CD32a, also known as Low affinity immunoglobulin gamma Fc region receptor II-a, are members of the Ig superfamily that function in the activation or inhibition of immune responses. Fc gamma RIIA is expressed on many immune cell types where inhibitory ITIM-bearing receptors may also be co-expressed and coengaged by specific ligands. Signaling through Fc gamma RIIA results in the initiation of inflammatory responses that can be modulated by signals from the inhibitory receptors. The strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors. Besides IC, Fc gamma RII A also binds C-reactive protein (CRP) Two allelic variants of Fc gamma RIIA that differ in their ability to ligate human IgG2 or CRP exist. The R167H allele has been found to have a protective effect against lupus nephritis.
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its binding ability in a functional ELISA with Human IgG1 Fc. The ED50 range $\leq 5 \mu\text{g/mL}$.
Molecular Mass	21.6 kDa (195 aa)
AA Sequence	SADSQAAAPPKAVLKLEPPWINVLQEDSVTLTCQGARSPESDSIQWFHNGNLIPTHT QPSYRFKANNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLR CHSWKDKPLVKVTFQNGKSQKFSLDPTFSIPQANHSHSGDYHCTGNIGYTLFSS KPVITITVQVPSMGSSSPMGI
Endotoxin	< 1 EU/ μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Absorbance at 280 nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

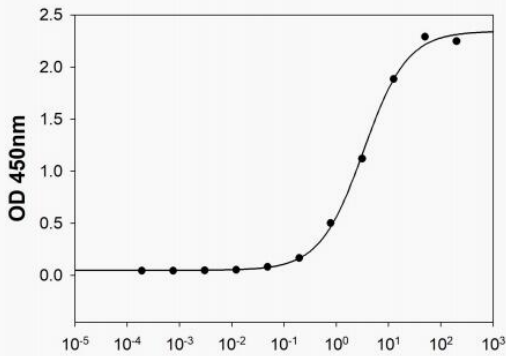
GENE INFORMATION

Gene Name	FCGR2A Fc fragment of IgG, low affinity IIa, receptor (CD32) [Homo sapiens (human)]
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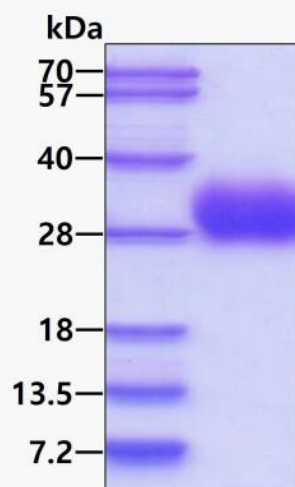
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Official Symbol	FCGR2A
Synonyms	FCGR2A; Fc fragment of IgG, low affinity IIa, receptor (CD32); Fc fragment of IgG, low affinity IIa, receptor for (CD32) , FCG2, FCGR2, FCGR2A1; low affinity immunoglobulin gamma Fc region receptor II-a; CD32; CD32A; 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
UniProt ID	P12318
Biological Activity	Human Fc gamma RIIA/CD32a (H167) (ug/ml)  Human IgG1 Fc is coated at 1 µg/mL (100 µL/well) can bind Human Fc gamma

RIIA/CD32a (H167). The ED50 range $\leq 5 \mu\text{g/mL}$.

SDS-PAGE



3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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