

## 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](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA with Human IgG1 Fc. The ED50 range $\leq 5 \mu\text{g/mL}$ .
<b>Molecular Mass</b>	21.6 kDa (195 aa)
<b>AA Sequence</b>	SADSQAAAPPKAVLKLEPPWINVLQEDSVTLTCQGARSPESDSIQWFHNGNLIPTHT QPSYRFKANNNSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLR CHSWKDKPLVKVTFQNGKSQKFSHLDPTFSIPQANHSHSGDYHCTGNIGYTLFSS KPVITIVQVPSMGSSSPMGI
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ of protein (determined by LAL method)
<b>Purity</b>	> 95% by SDS-PAGE
<b>Applications</b>	SDS-PAGE, Bioactivity
<b>Notes</b>	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
<b>Storage</b>	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.
<b>Concentration</b>	1 mg/mL (determined by Absorbance at 280 nm)
<b>Storage Buffer</b>	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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<b>Official Symbol</b>	<b>FCGR2A</b>
<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>	<b>2212</b>
<b>mRNA Refseq</b>	<b>NM_001136219</b>
<b>Protein Refseq</b>	<b>NP_001129691</b>
<b>MIM</b>	<b>146790</b>
<b>UniProt ID</b>	<b>P12318</b>
<b>SDS-PAGE</b>	 <p>The SDS-PAGE gel shows a single prominent band at approximately 35 kDa. The molecular weight markers on the left are 70, 57, 40, 28, 18, 13.5, and 7.2 kDa.</p>

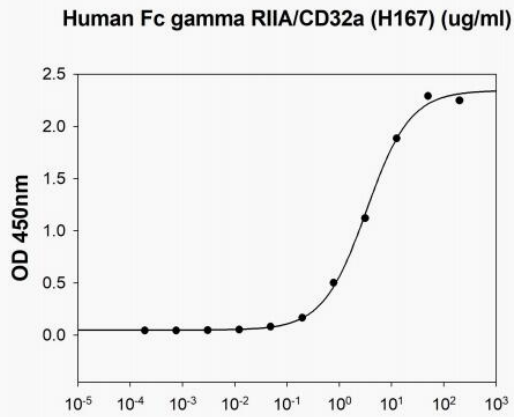
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3  $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

**Biological Activity**



Human IgG1 Fc is coated at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Human Fc gamma RIIA/CD32a (H167). The ED50 range  $\leq$  5  $\mu$ g/mL.

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