

# Active Recombinant Human FCGR2A protein(167 Arg), His-tagged

**Cat. No.** FCGR2A-649H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human FCGR2A protein (Met1-Ile218) (P12318-1, with Natural variant His 167 Arg), fused with a C-terminal polyhistidine tag, was expressed in HEK293.                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Ile218                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.5<br>Normally 5 % trehalose, 5 % mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                            |
| <b>Bio-activity</b>     | 1. Measured by its ability to bind biotinylated human IgG2 in functional ELISA.<br>2. Loaded Anti-CD32A Antibody, Mouse Monoclonal on AMC Biosensor, can bind CD32A Protein, Human, Recombinant (167 Arg, His Tag) with an affinity constant of 6.8 nM as determined by Octet RED System. |
| <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>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                            |

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|                       |                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 97 % as determined by SDS-PAGE                                                                                                                                                                                                                  |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C<br>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; CD32; CD32A; CDw32; IGFR2; fcRII-a; fc-gamma-RIIa; FCG2; FcGR; FCGR2; FCGR2A1; MGC23887; MGC30032; |
| <b>Gene ID</b>         | 2212                                                                                                       |
| <b>mRNA Refseq</b>     | NM_001136219.1                                                                                             |
| <b>Protein Refseq</b>  | NP_001129691.1                                                                                             |
| <b>MIM</b>             | 146790                                                                                                     |
| <b>UniProt ID</b>      | P12318                                                                                                     |

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