

[Go to Product page](#)

## Datasheet for ABIN7488975 FCGR1A Protein (His tag)

### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 100 µg  |
| Target:                       | FCGR1A  |
| Origin:                       | Rat   |
| Source:                       | HEK-293 Cells                                 |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This FCGR1A protein is labelled with His tag. |

### Product Details

|                  |   |
|------------------|---|
| Purpose:         | Rat Fc gamma RI / CD64 Protein, His Tag (MALS verified)   |
| Sequence:        | Gln 16 - Pro 285  |
| Characteristics: | Rat CD64 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 16 - Pro 285 (Accession # A0A0B4J2J0). |
| Purity:          | 95 %  |
| Endotoxin Level: | 1.0 EU per µg   |
| Grade:           | MALS verified   |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | FCGR1A   |
| Alternative Name: | CD64 ( <a href="#">FCGR1A Products</a> )   |
| Background:       | Receptors that recognize the Fc portion of IgG are divided into three groups designated Fc |

## Target Details

gamma RI, RII, and RIII, also known respectively as CD64, CD32, and CD16. Fc gamma RI binds IgG with high affinity and functions during early immune responses. Fc gamma RII and RIII are low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during late immune responses. High affinity immunoglobulin gamma Fc receptor I is also known as FCGR1A, FCG1, FCGR1, CD64 and IGFR1, is a type of integral membrane glycoprotein that binds monomeric IgG-type antibodies with high affinity, which belongs to the immunoglobulin superfamily or FCGR1 family. FCGR1A / CD64 contains 3 Ig-like C2-type (immunoglobulin-like) domains. CD64 is constitutively found on only macrophages and monocytes, but treatment of polymorphonuclear leukocytes with cytokines like IFN $\gamma$  and G-CSF can induce CD64 expression on these cells.

Molecular Weight: 32.1 kDa

NCBI Accession: [NP\\_001094306](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

## Application Details

Comment: This protein carries a polyhistidine tag at the C-terminus. (10xHis) The protein has a calculated MW of 32.1 kDa. The protein migrates as 37-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C

Storage Comment: -20°C