

Datasheet for ABIN7321023  
**FCGR3A Protein (His tag)**[Go to Product page](#)

## 1 Image

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 50 µg   |
| Target:                       | FCGR3A  |
| Origin:                       | Cynomolgus                                    |
| Source:                       | Human Cells                                   |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This FCGR3A protein is labelled with His tag. |

## Product Details

|                  |  |
|------------------|--|
| Purpose:         | Recombinant Cynomolgus Fc gamma RIIIA/FCGR3A/CD16a (C-6His)  |
| Sequence:        | Glu21-Gly206   |
| Characteristics: | Recombinant Cynomolgus Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A is produced by our Mammalian expression system and the target gene encoding Glu21-Gly206 is expressed with a 6His tag at the C-terminus. |
| Purity:          | >95 % as determined by reducing SDS-PAGE.  |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method.   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | FCGR3A  |
| Alternative Name: | Fc gamma RIIIA/FCGR3A/CD16a ( <a href="#">FCGR3A Products</a> )   |
| Background:       | Background: Receptors for the Fc region of immunoglobulin G (FcγR) are divided into three classes and FcγRIII is a multifunctional, low/intermediate affinity receptor. In humans, FcγRIII is |

## Target Details

expressed as two distinct forms (FcγRIIIA and FcγRIIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. FcγRIIIB is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas FcγRIIIA is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The FcγRIIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. FcγRIIIA has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain and delivers an activation signal in the immune responses. Aberrant expression or mutations in this gene is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia. In humans, it is a 50 -70 kD type I transmembrane activating receptor. The FcγRIIIA cDNA encodes 254 amino acid including a 16aa signal sequence, 191 amino acid ECD with two C2-type Ig-like domains, five potential N-glycosylation sites, a 22 amino acid transmembrane sequence and a 25 amino acid cytoplasmic domain. Synonym: Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A, CD16a Antigen, Fc-Gamma RIII-Alpha, Fc-Gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc Receptor III-2, CD16a, FCGR3A, CD16A, FCG3, FCGR3, IGFR3

Molecular Weight: 22 kDa

UniProt: [A0A140HDP8](#)

## Application Details

Restrictions: For Research Use only

## Handling

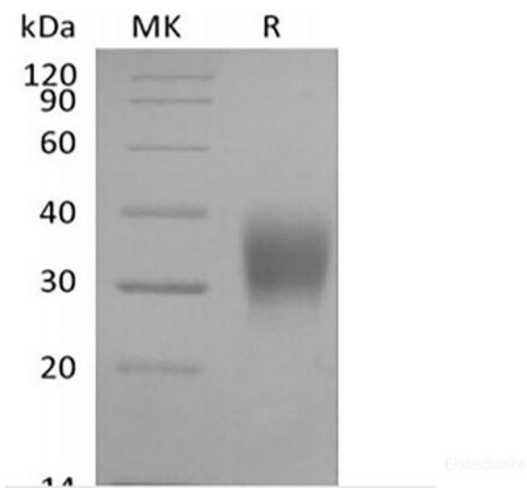
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.