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Datasheet for ABIN2181078

## FCGR3A Protein (AA 17-208) (His tag)

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### Overview

Quantity:	100 µg
Target:	FCGR3A
Protein Characteristics:	AA 17-208
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR3A protein is labelled with His tag.

### Product Details

Brand:	MABSol®
Sequence:	AA 17-208
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 22.7 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

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Target:	FCGR3A
Alternative Name:	Fc gamma RIIIA / CD16a ( <a href="#">FCGR3A Products</a> )
Background:	<p>CD16 is a low affinity Fc receptor, and has been identified as Fc receptors FcγRIIIa (CD16a) and FcγRIIIb (CD16b). These receptors bind to the Fc portion of IgG antibodies. CD16 encoded by two different highly homologous genes in a cell type-specific manner. CD16 is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16a antigen is also known as Low affinity immunoglobulin gamma Fc region receptor III-A, Fc-gamma RIII-alpha. CD16b is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas CD16a is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed natural killer cells, macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts. CD16a is involved in phagocytosis, secretion of enzymes and inflammatory mediators, antibody-dependent cytotoxicity and clearance of immune complexes. Aberrant expression or mutations of CD16a is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia.</p>
Molecular Weight:	23.7 kDa
NCBI Accession:	<a href="#">NP_000560</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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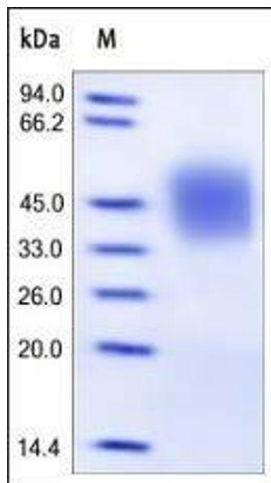
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

## Publications

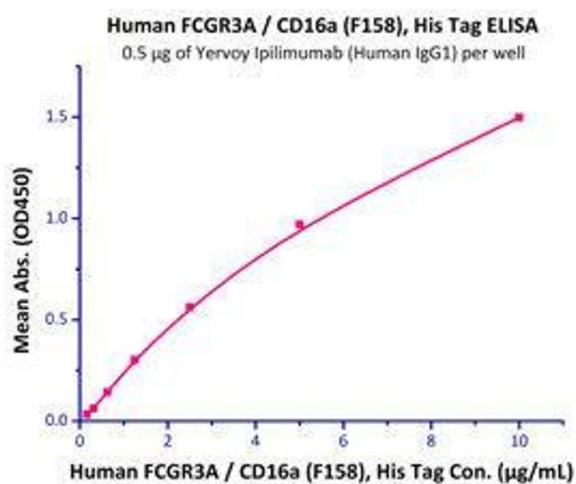
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Product cited in: Ye, Ge, Zhang, Cheng, Zhang, He, Wang, Lin, Yang, Liu, Zhao, Deng: "Pluripotent stem cells induced from mouse neural stem cells and small intestinal epithelial cells by small molecule

## Images

**SDS-PAGE**

**Image 1.** Human FCGR3A / CD16a (F158), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

**Binding Studies**

**Image 2.** Immobilized Yervoy Ipilimumab at 5 µg/mL (100 µl/well) can bind Human FCGR3A / CD16a (F158), His Tag (Cat# CDA-H5220) with a linear range of 0.15-5 µg/mL.