

Human CD64/FCGR1A antibody

Catalog Number: ATGA0324

PRODUCT INFORMATION

Catalog number

ATGA0324

Clone No.

AT37F7

Product type

Monoclonal Antibody

UnitProt No.

P12314

NCBI Accession No.

NP_000557

Alternative Names

High affinity immunoglobulin gamma Fc receptor I, IgG Fc receptor I, Fc-gamma RI, FcRI, RIA, FcgammaRIa, fc-gamma RIA, CD64, FCGR1A, FCG1, FCGR1, IGFR1

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human FCGR1A (16-292aa) purified from E.coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

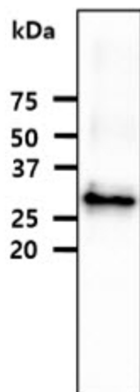
High affinity immunoglobulin gamma Fc receptor I (FCGR1A) is a protein that in humans is encoded by the FCGR1A gene. Also, This protein is known as CD64, belongs to the immunoglobulin superfamily. It is a high-affinity Fc-gamma receptor. They are playing a role in both innate and adaptive immune responses. They have been shown to interact with FCAR. The FcγRI binds the Fc portion of IgG and causes activation of the host cell via an intercellular ITAM motif.

General References

- Maresco. D.L., et al. (1996) Cytogenet Cell Genet 73(3): 157-163.
- Maresco. D.L., et al. (1998) Cytogenet Cell Genet 82(1-2): 71-74.
- Morton., et al. (1995) J Biol Chem 270(50): 29781-29787.

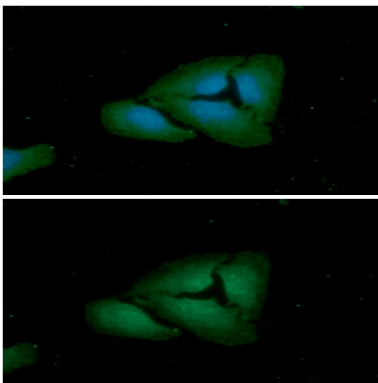
DATA

Western blot analysis (WB)



The recombinant protein (20ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human FCGR1A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

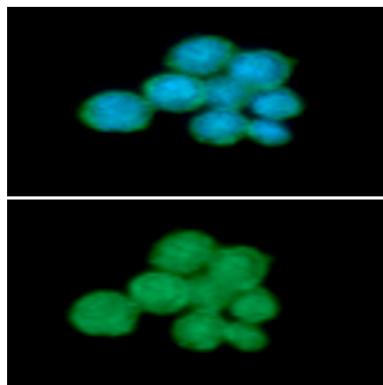
Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of FCGR1A in HeLa cells. The cell was stained with ATGA0324 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

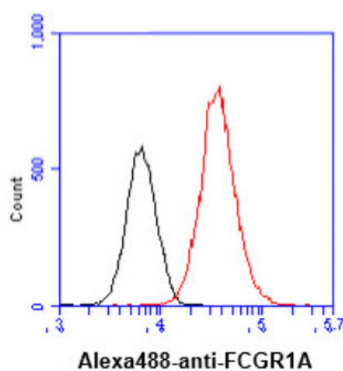
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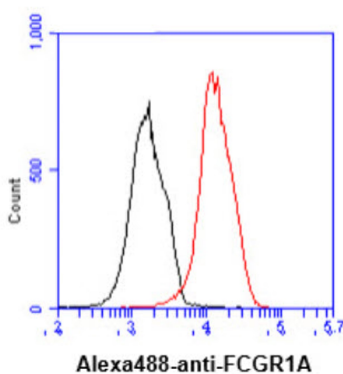


ICC/IF analysis of FCGR1A in Jurkat cells. The cell was stained with ATGA0324 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of FCGR1A in HeLa cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Flow cytometry analysis of FCGR1A in Jurkat cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).