

Product Name: KD-Validated Fc Gamma Receptor IIIa Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01349

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 29.1kDa

Antigen Information

Gene Name	FCGR3A
Alternative Names	FCGR3A; Fc Gamma Receptor IIIa; FcgammaRIIIa; FCGR11A; CD16a; FCGR3; CD16; FCG3; Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A; Fc Fragment Of IgG, Low Affinity IIIa, Receptor (CD16a); Fc Fragment Of IgG Receptor IIIa; IgG Fc Receptor III-A; IgG Fc Receptor III-2; Fc-Gamma RIII-Alpha; CD16a Antigen; CD16-II; IGFR3; Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A/III-B Recombinant; Low Affinity Immunoglobulin Gamma Receptor III-A Fc Fragment; Fc Fragment Of IgG, Low Affinity IIIa, Receptor For (CD16); Low Affinity Immunoglobulin Gamma Fc Region Receptor III-B; Fc Fragment Of IgG, Low Affinity III, Receptor For (CD16); Immunoglobulin G Fc Receptor III; Fc-Gamma Receptor III-2 (CD 16); Neutrophil-Specific Antigen NA; Fc-Gamma Receptor IIIb

(CD16); Fc Gamma Receptor III-A; Fc-Gamma RIIIa; Fc-Gamma RIII; FcgammaRIIIA; FCGRIII; FCRIIIa; FcRIIIa; FCR-10; FCRIII; FcRIII; FcR-10; IMD20; CD16A

Gene ID	2214.0
SwissProt ID	P08637
Immunogen	A synthesized peptide derived from human CD16

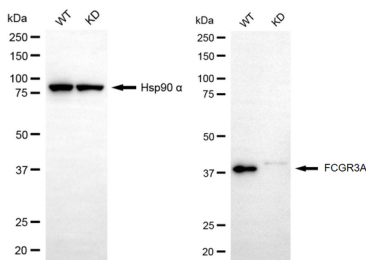
Background

This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2020]

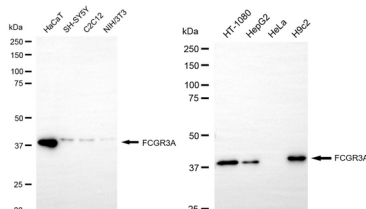
Research Area

Immunology, Stem Cells

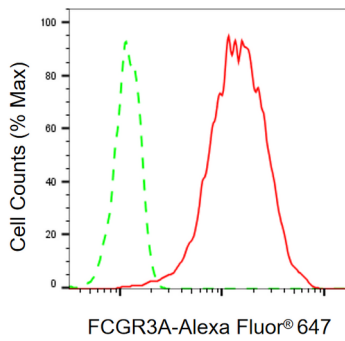
Image Data



Western blotting analysis using FCGR3A antibody (KVA01349). FCGR3A expression in wild-type (WT) and FCGR3A knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with FCGR3A antibody (KVA01349, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using FCGR3A antibody (KVA01349). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FCGR3A antibody (KVA01349, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of FCGR3A expression in HT-1080 cells using FCGR3A antibody (KVA01349, 1:2,000). Green, isotype control; red, FCGR3A.