

Fc gamma RIIIA/CD16a Recombinant Protein | FcgammaRIIIA/CD16a recombinant protein

Recombinant human Fc gamma RIIIA/CD16a protein

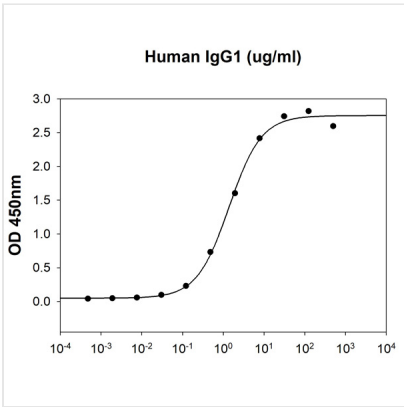
CATALOG # AAA48425	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

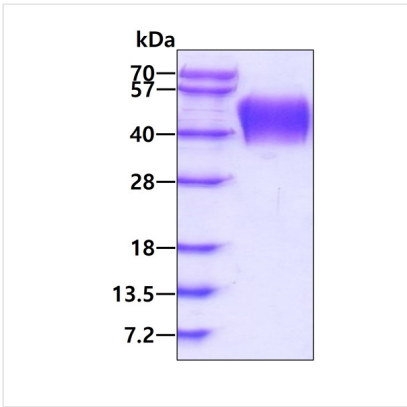
Fc gamma RIIIA/CD16a; Recombinant human Fc gamma RIIIA/CD16a protein; Low affinity immunoglobulin gamma Fc region receptor III-A; low affinity immunoglobulin gamma Fc region receptor III-A isoform c; IgG Fc receptor III-A; CD16-II; CD16a antigen; Fc-gamma RIII-alpha; Fc-gamma RIII; Fc-gamma RIIIA; FcRIII; FcRIIIa; FcgammaRIIIA; FcR-10; IgG Fc receptor III-2; CD16a; FCGR3A; CD16A; FCG3; FCGR3; FCGRIII; IGFR3; IMD20; CD16; FcgammaRIIIA/CD16a recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	18-208aa
Sequence	MRTEDLPKAV VFLEPQWYRV LEKDSVTLKC QGAYSPEDNS TQWFHNESLI SSQASSYFID AATVDDSGEY RCQTNLSTLS DPVQLEVHIG WLLQAPRWV FKEEDPIHLR CHSWKNTALH KVTYLQNGKG RKYFHHNSDF YIPKATLKDS GSYFCRGLFG SKNVSSETVN ITITQGLAVS TISSFFPPGY Q
Applicable Applications for FcgammaRIIIA/CD16a recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	His-Tag
Predicted Nterm	Met 18
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured by its binding ability in a functional ELISA with Human IgG1 Fc.
Preparation and 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.



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain



Bioactivity
Human Fc gamma RIIIA/CD16a is coated at 10 ug/ml (100 ul/well) can bind Human IgG1 Fc in a functional ELISA assay.

ADDITIONAL INFORMATION

Related Product Information for FcgammaRIIIA/CD16a recombinant protein	Fc gamma RIIIA/CD16a is also known as Low affinity immunoglobulin gamma Fc region receptor III-A isoform c. It is optimally activated upon binding of clustered antigen-IgG complexes displayed on cell surfaces, triggers lysis of antibody-coated cells, a process known as antibody-dependent cellular cytotoxicity (ADCC). Also mediates IgG effector functions on natural killer (NK) cells. Binds antigen-IgG complexes generated upon infection and triggers NK cell-dependent cytokine production and degranulation to limit viral load and propagation. Involved in the generation of memory-like adaptive NK cells capable to produce high amounts of IFNG and to efficiently eliminate virus-infected cells via ADCC. Regulates NK cell survival and proliferation, in particular by preventing NK cell progenitor apoptosis. Fc gamma RIIIA is mediates the antitumor activities of therapeutic antibodies. Upon ligation on monocytes triggers TNFA-dependent ADCC of IgG-coated tumor cells. Recombinant human Fc gamma RIIIA/CD16a, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for FcgammaRIIIA/CD16a recombinant protein	Immunology
References	Lee J., et al, (2015) Immunity. 42(3):431-442.; DiLillo D.J., et al, (2014) Nat Med. 20(2):143-151.; Warren H.S., et al, (1999) J Immunol. 162(2):735-742.; Grier J.T., et al, (2012) J Clin Invest. 122(10):3769-3780.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P08637
Molecular Weight	22.6kDa (197aa)
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor III-A
UniProt Gene Name	FCGR3A
UniProt Synonym Gene Names	CD16A; FCG3; FCGR3; IGFR3; Fc-gamma RIII; Fc-gamma RIIIA; FcRIII; FcRIIIa
UniProt Entry Name	FCG3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.