

Fc Fragment Of IgG Low Affinity IIIa Receptor (FcγR3A) Active Protein | FcγR3A active protein

Active Fc Fragment Of IgG Low Affinity IIIa Receptor (FcγR3A)

CATALOG # AAA161837	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Fc Fragment Of IgG Low Affinity IIIa Receptor (FcγR3A); Active Fc Fragment Of IgG Low Affinity IIIa Receptor (FcγR3A); Fc Fragment Of IgG Low Affinity IIIa Receptor; CD16a; CD16-A; FCGR3-A; FCG3; FcγRIII; IGFR3; NA; Neutrophil Antigen; Low affinity immunoglobulin gamma Fc region receptor III-A4; FcγR3A active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Leu5~Ile24 0
Applicable Applications for FcγR3A active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	Two N-terminal Tags, His-tag and SUMO-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7
Research Area	CD & Adhesion molecule
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

IMAGES



Bioactivity

Fc receptor with low affinity for IgG (Fc gamma RIIB, CD16) is encoded by two nearly identical genes, Fc gamma RIIB-A and Fc gamma RIIB-B, resulting in tissue-specific expression of alternative membrane-anchored isoforms. Fcgr3A is expressed in almost all white blood cells and is primarily responsible for the ADCC action of NK cells and the clearance of antibody-antigen immune complexes by macrophages. Fcgr3B is mainly expressed in neutrophils and can stimulate the release of superoxide in neutrophils. A functional binding ELISA assay was conducted to detect the interaction of recombinant mouse Fcgr3A and mouse IgG. Briefly, biotin-linked Fcgr3A were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to IgG-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant mouse Fcgr3A and mouse IgG was shown in Figure 1, the EC50 for this effect is 0.26 ug/mL.



SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for Fcgr3A active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	224922770
NCBI GeneID	246256
NCBI Accession #	NP_653142.2
NCBI GenBank Nucleotide #	NM_144559.2
UniProt Accession #	Q8R2R4; Q3TC44; Q8R477; A0A0B4J1G0
Molecular Weight	28,398 Da
NCBI Official Full Name	low affinity immunoglobulin gamma Fc region receptor IV
NCBI Official Synonym Full Names	Fc receptor, IgG, low affinity IV
NCBI Official Symbol	Fcgr4
NCBI Official Synonym Symbols	Fcrl3; CD16-2; FcgrIV; Fcgr3a; FcgammaRIV; 4833442P21Rik
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor IV
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor IV
UniProt Gene Name	Fcgr4

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/fc-fragment-of-igg-low-affinity-iiia-receptor-fcgr3a/161837>