

CD64 Recombinant Protein | FCGR1 recombinant protein

CD64 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA257467

HOST
HEK293 Cells

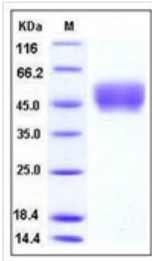
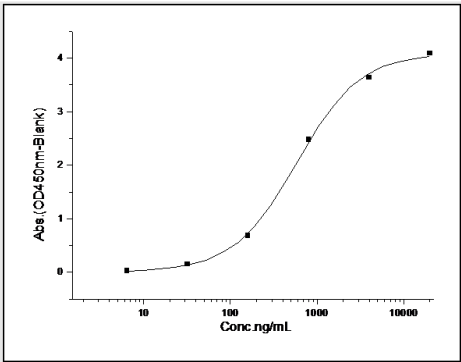
PRODUCT SYNONYMS

CD64; CD64 Protein; Mouse; Recombinant (His Tag); Mouse CD64/FCGR1 Protein (His Tag); Fc receptor; IgG; high affinity I; AI323638 Protein; AV092959 Protein; FcgammaRI Protein; IGGHAFc Protein; FCGR1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	284aa
Sequence	Met1-Pro297
Species	Mouse
Tag	C-His
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu25
Protein Construction	JA DNA sequence encoding the extracellular domain (Met 1-Pro 297) of mouse FCGR1 (NP_034316.1) precursor was fused with a polyhistidine tag at the C-terminus
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse CD64-His at 10ug/ml (100ul/well) can bind biotinylated human IgG1. The EC50 of biotinylated human IgG1 is 0.07-0.17ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

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ADDITIONAL INFORMATION

Related Product Information for FCGR1 recombinant protein	High affinity immunoglobulin gamma Fc receptor I, also known as FCGR1 and CD64, is an integral membraneglycoprotein and a member of the immunoglobulin superfamily. CD64 is a high affinity receptor for the Fc region of IgG gamma and functions in both innate and adaptive immune responses. Receptors that recognize the Fc portion of IgG function in the regulation of immune response and are divided into three classes designated CD64, CD32, and CD16. CD64 is structurally composed of asignal peptidethat allows its transport to the surface of a cell, threeextracellularimmunoglobulin domains of the C2-type that it uses to bind antibody, a hydrophobictransmembrane domain, and a short cytoplasmic tail. CD64 isconstitutivelyfound on only macrophages and monocytes, but treatment of polymorphonuclear leukocyteswith cytokines likeIFNgammaandG-CSFcan induce CD64 expression on these cells. The inactivation of the mouse CD64 resulted in a wide range of defects in antibody Fc-dependent functions. Mouse CD64 is an early participant in Fc-dependent cell activation and in the development of immune responses.
Product Categories/Family for FCGR1 recombinant protein	Fc Receptors
References	Allen J.M., et al., (1988), Nucleotide sequence of three cDNAs for the human high affinity Fc receptor (FcRI). Nucleic Acids Res. 16:11824-11824.Allen J.M., et al., (1989), Isolation and expression of functional high-affinity Fc receptor complementary DNAs.Science 243:378-381.Porges A.J., et al., (1992), Novel Fc gamma receptor I family gene products in human mononuclear cells.J. Clin. Invest. 90:2102-2109.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753832
NCBI GeneID	14129
NCBI Accession #	NP_034316.1
NCBI GenBank Nucleotide #	NM_010186.5
UniProt Accession #	P26151
Molecular Weight	44,888 Da
NCBI Official Full Name	high affinity immunoglobulin gamma Fc receptor I
NCBI Official Synonym Full Names	Fc receptor, IgG, high affinity I
NCBI Official Symbol	Fcgr1
NCBI Official Synonym Symbols	CD64; IGGHAFc; AI323638; AV092959; FcgammaRI
NCBI Protein Information	high affinity immunoglobulin gamma Fc receptor I

UniProt Protein Name	High affinity immunoglobulin gamma Fc receptor I
UniProt Gene Name	Fcgr1
UniProt Synonym Gene Names	Fcg1; IgG Fc receptor I; FcRI
UniProt Entry Name	FCGR1_MOUSE

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/fcgr1-recombinant-protein-hek293-cells/257467>