

Rabbit anti-Mouse CD64 Monoclonal Antibody | anti-FCGR1 antibody

Recombinant Anti-CD64 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257083	Rabbit	Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD64; Monoclonal Antibody; Recombinant Anti-CD64 Antibody; Rabbit Monoclonal; CD64/FCGR1 Antibody; Rabbit MAb; Fc receptor; IgG; high affinity I; Anti-AI323638 Antibody; Anti-AV092959 Antibody; Anti-CD64 Antibody; Anti-FcgammaRI Antibody; Anti-IGGHAFC Antibody; anti-FCGR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	027
Specificity	Mouse CD64/FCGR1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FCGR1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse CD64/FCGR1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse CD64/FCGR1 (rM CD64/FCGR1).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of mouse FCGR1 in Raw264.7 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-mouse FCGR1 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cells membrane.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Mouse FCGR1(CD64) expression on Raw264.7 cells. Cells were stained with purified anti-Mouse FCGR1(CD64), then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-FCGR1 antibody	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 domainsof 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 anti-FCGR1 antibody	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.