

Mouse anti-Human CD16a Monoclonal Antibody | anti-FCGR3A antibody

Anti-CD16a Antibody, Mouse Monoclonal

CATALOG # AAA254889	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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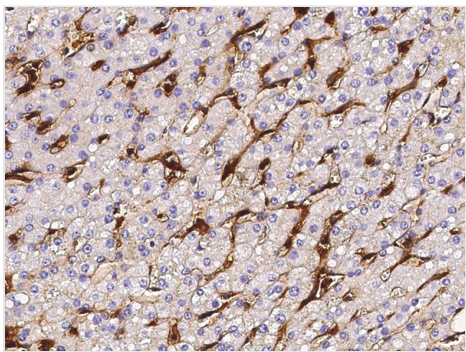
PRODUCT SYNONYMS

CD16a; Monoclonal Antibody; Anti-CD16a Antibody; Mouse Monoclonal; CD16a/FCGR3A Antibody; Mouse MAb; Fc fragment of IgG; low affinity IIIa; receptor (CD16a); Anti-CD16 Antibody; Anti-CD16A Antibody; Anti-Fc gamma RIIIa Antibody; Anti-FCG3 Antibody; Anti-FCGR3 Antibody; Anti-FCGRIII Antibody; Anti-FCR-10 Antibody; Anti-FCRIII Antibody; Anti-FCRIIIA Antibody; Anti-IGFR3 Antibody; Anti-IMD20 Antibody; anti-FCGR3A antibody

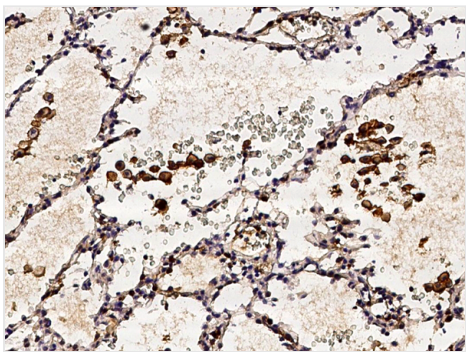
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	04
Specificity	Human CD16a/FCGR3A. No cross-reactivity in ELISA with Human CD32a, Human CD32b, Human CD64 Has cross-reactivity in ELISA with Human CD16b
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FCGR3A antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Human CD16a/FCGR3A protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD16a/FCGR3A (rh CD16a/FCGR3A). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
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.

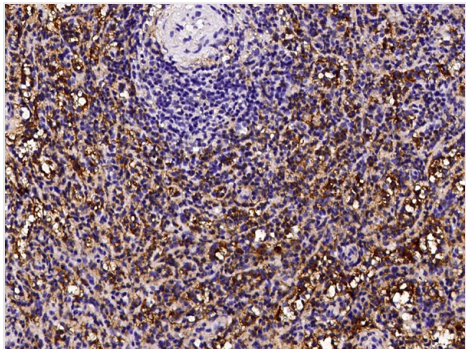
IMAGES



IHC (Immunohistochemisry)
Immunochemical staining of human CD16a in human liver with mouse monoclonal antibody (1:500, formalin-fixed paraffin embedded sections).



IHC (Immunohiostchemistry)
Immunochemical staining of human CD16a in human lung with mouse monoclonal antibody (1:500, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human CD16a in human spleen with mouse monoclonal antibody (1:500, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-FCGR3A antibody	The Fc receptor with low affinity for IgG (FCGR3, or CD16) is encoded by 2 nearly identical genes, FCGR3A and FCGR3B, resulting in tissue-specific expression of alternative membrane-anchored isoforms. FCGR3A, it is also known as CD16a, encodes a transmembrane protein expressed on activated monocytes/macrophages, natural killer (NK) cells, and a subset of T cells. CD16a/FCGR3A is a receptor expressed on NK cells that facilitates antibody dependent cellular cytotoxicity (ADCC) by binding to the Fc portion of various antibodies. CD16a/FCGR3A also has a broader function. CD16a/FCGR3A is directly involved in the lysis of some virus-infected cells and tumor cells by NK cells, independent of antibody binding. Cross-linking of CD16a/FCGR3A on NK cells resulted in increased intracellular Ca2+ levels and a cascade of biochemical events similar to those activated by the T cell receptor. CD16a/FCGR3A on human NK cells is a lysis receptor that mediates the direct killing of some virus infected and tumor cells, independent of antibody ligation.
Product Categories/Family for anti-FCGR3A antibody	Fc Receptors Cancer Drug Targets ITIM/ITAM Immunoreceptors and Related Molecules
References	David Dornan, et al. Effect of FCGR2A and FCGR3A variants on CLL outcome. Blood. 2010 116: 4212-4222

NCBI AND UNIPROT INFORMATION

NCBI GI #	119876
NCBI GeneID	2214
UniProt Accession #	P08637 ; Q53FJ0 ; Q53FL6 ; Q5EBR4 ; Q65ZM6 ; Q6PIJ0 ; A2N6W9
Molecular Weight	254
NCBI Official Full Name	Low affinity immunoglobulin gamma Fc region receptor III-A
NCBI Official Synonym Full Names	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)

NCBI Official Symbol	FCGR3A
NCBI Official Synonym Symbols	CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor III-A; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RIIIA; Fc-gamma RIII-alpha; igG Fc receptor III-2; Fc gamma receptor III-A; Fc-gamma receptor IIb (CD16); neutrophil-specific antigen NA; Fc-
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd16a-antibody-clone-04-immunohistochemistry-elisa/254889>