

Rabbit anti-Rat CD16a Polyclonal Antibody | anti-FCGR3A antibody

Anti-CD16a Antibody, Rabbit Polyclonal

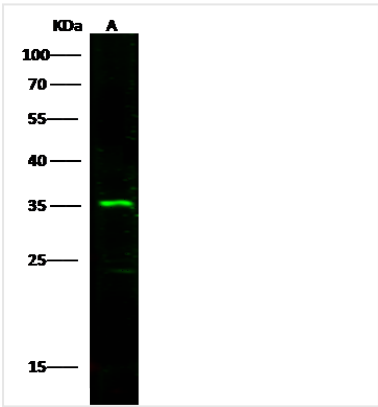
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257287	Rabbit	Rat	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

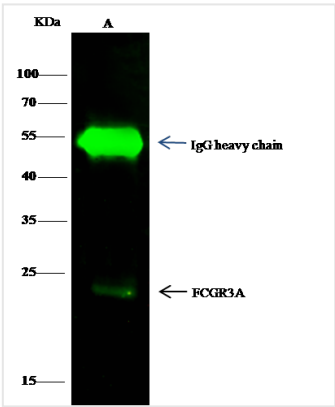
CD16a; Polyclonal Antibody; Anti-CD16a Antibody; Rabbit Polyclonal; CD16a/FCGR3A Antibody; Rabbit PAb; Antigen Affinity Purified; Fc fragment of IgG; low affinity IIIa; receptor (CD16a); anti-FCGR3A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rat CD16a/FCGR3A
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FCGR3A antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Rat CD16a/FCGR3A protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Rat CD16a/FCGR3A (rR CD16a/FCGR3A). CD16a/FCGR3A specific IgG was purified by Rat CD16a/FCGR3A 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.



WB (Western Blot)
Anti-FCGR3 rabbit polyclonal antibody at 1:500 dilutionLane A: Jurkat Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:29 kDaObserved band size:35 kDa



IP (Immunoprecipitation)
rat FCGR3A was immunoprecipitated using:Lane A:0.5 mg Raw264.7 Whole Cell Lysate0.5 uL anti-rat FCGR3A rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-rat FCGR3A rabbit polyclonal antibody,at 1:1000 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 29 kDaObserved band size: 23 kDa

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 #	134290448
NCBI GeneID	304966
NCBI Official Full Name	Fc fragment of IgG intermediate affinity IV receptor
NCBI Official Synonym Full Names	Fc fragment of IgG receptor IIIa
NCBI Official Symbol	Fcgr3a
NCBI Official Synonym Symbols	Fcgr4
NCBI Protein Information	Fc fragment of IgG receptor IIIa; Fc fragment of IgG, low affinity IIIa, receptor

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.