

Rabbit anti-Human CD32 Antibody | anti-CD32 antibody

Anti-CD32 [IV.3], Rabbit IgG

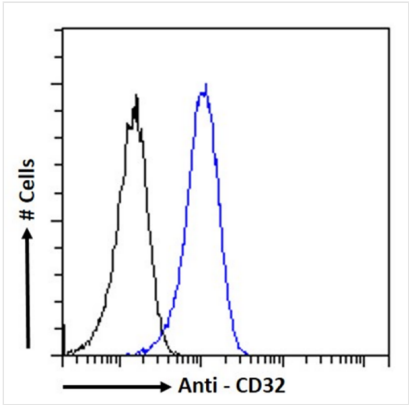
CATALOG # AAA72274	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunofluorescence, Immunoprecipitation
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PRODUCT SYNONYMS

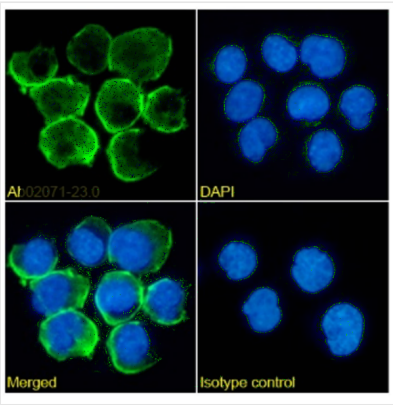
CD32; Anti-CD32 [IV.3]; Rabbit IgG; CDw32; Fc-gamma RII-a; FcgammaRIIa; FcgammaRII; FcRII-a; FCGR2A; IgG Fc receptor II-a; Low affinity immunoglobulin gamma Fc region receptor II-a; anti-CD32 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Isotype	Rabbit IgG, Kappa
Clone Number	IV.3
Specificity	This antibody recognizes and binds CD32a.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD32 antibody	ELISA, Blocking, IF (Immunofluorescence), IA (Inhibition Assay), IP (Immunoprecipitation)
Immunogen	The original antibody was generated against the FcR of K562 cells.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD32 antibody IV.3 (AAA72274). Paraformaldehyde fixed U937 cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of IV.3 (AAA72274-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of U937 cells with anti-CD32 (AAA72274) IV.3
Immunofluorescence analysis of paraformaldehyde fixed U937 cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of IV.3 (AAA72274-23.0) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72274-23.0, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD32 antibody	This antibody successfully precipitated a 40-kd FcR from lysates of U937 and K562 cells but not from Daudi or Raji cells. It selectively inhibited the binding of murine IgG1-coated erythrocytes to U937 cells. IV.3 blocked mIgG1 anti-T3 (Leu-4) stimulation but not mIgG2a anti-T3 (OKT3) stimulation of T cells (PMID: 2936805). Anti-FcγRII antibody IV.3 specifically stained Ltk- cells transfected with the FcγR cDNA clone in an immunofluorescence assay (PMID: 2824655). It was reported that IV.3 induces anaphylaxis in immunocompetent CD32a-transgenic "FCGR2A" mice and that IV.3 also induce severe thrombocytopenia in FCGR2A mice (PMID: 26396093). IV.3, reacted with CD32A-R131 exclusively, confirming the specificity in an ELISA (PMID:17386079).
References	Looney et al. Human monocytes and U937 cells bear two distinct Fc receptors for IgG. J Immunol. (1986); 136(5):1641-7. PMID:2936805

NCBI AND UNIPROT INFORMATION

NCBI GI #	210031822
NCBI GeneID	2212
NCBI Accession #	NP_001129691.1
NCBI GenBank Nucleotide #	NM_001136219.1
UniProt Accession #	P12318; Q8WUN1; Q8WW64
Molecular Weight	35,001 Da
NCBI Official Full Name	low affinity immunoglobulin gamma Fc region receptor II-a isoform 1
NCBI Official Synonym Full Names	Fc fragment of IgG, low affinity IIa, receptor (CD32)
NCBI Official Symbol	FCGR2A
NCBI Official Synonym Symbols	CD32; FCG2; FcGR; CD32A; CDw32; FCGR2; IGFR2; FCGR2A1
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor II-a; fcRII-a; fc-gamma-RIIa; fc-gamma RII-a; igG Fc receptor II-a; Immunoglobulin G Fc receptor II
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor II-a
UniProt Gene Name	FCGR2A

UniProt Synonym Gene Names	CD32; FCG2; FCGR2A1; IGFR2; IgG Fc receptor II-a; Fc-gamma-RIIa; FcRII-a
UniProt Entry Name	FCG2A_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/rabbit-human-antibody/cd32/72274>