

anti-Human CD32 Antibody | anti-CD32 antibody

Anti-Hu CD32 APC

CATALOG # AAA129261	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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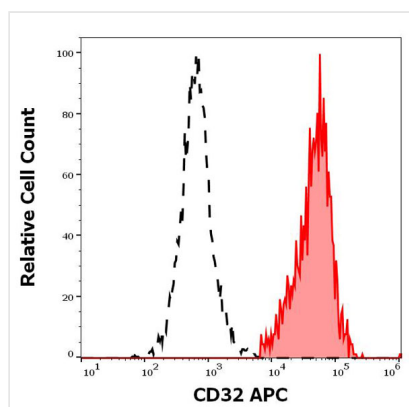
PRODUCT SYNONYMS

CD32; Anti-Hu CD32 APC; Fc fragment of IgG receptor IIa; FCG2; FCGR2A; IGFR2; anti-CD32 antibody

PRODUCT SPECIFICATIONS

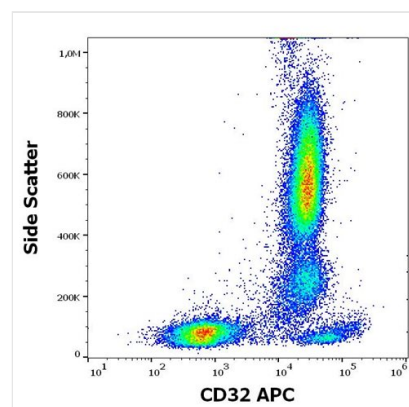
Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	3D3
Specificity	The mouse monoclonal antibody 3D3 recognizes an extracellular epitope of CD32, a 40 kDa polymorphic transmembrane glycoprotein serving as the low affinity receptor for aggregated IgG. This antibody recognizes CD32 isoforms on B cells of all donors, but on platelets, monocytes, and granulocytes of only some donors (131R variant, but not 131H variant).
Form/Format	APC Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m
Applicable Applications for anti-CD32 antibody	FCM/FACS (Flow Cytometry)
Immunogen	purified glycosylated recombinant human FcgammaRIIa2
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human CD32 positive lymphocytes (red-filled) from CD32 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD32 (3D3) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD32 (3D3) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD32 antibody	CD32 (FcgammaRII) is a low affinity receptor for aggregated IgG. It is strongly expressed on monocytes, granulocytes, myeloid and myeloblastic cell lines, and weakly on B cells, CD34+ bone marrow cells, and resting and activated platelets. After binding its ligand, CD32 induces IgG-mediated phagocytosis and oxidative burst in monocytes and neutrophils, whereas in B cells it mediates a negative signal. This polymorphic transmembrane glycoprotein is expressed not only in the activating (CD32a) and inhibitory isoform (CD32b), but also in individual variants with differing avidities for IgG subtypes (e.g. the CD32a131R and CD32a131H allotypes).
References	*Dutertre CA, Bonnin-Gélizé E, Pulford K, Bourel D, Fridman WH, Teillaud JL: A novel subset of NK cells expressing high levels of inhibitory FcgammaRIIB modulating antibody-dependent function. J Leukoc Biol. 2008 Dec;84(6):1511-20, URL: <a 23933259"="" href="http://www.ncbi.nlm.nih.gov/pubmed/?term=pulford+k+bourel+d,*Os A, Bürgler S, Ribes AP, Funderud A, Wang D, Thompson KM, Tjønnfjord GE, Bogen B, Munthe LA: Chronic lymphocytic leukemia cells are activated and proliferate in response to specific T helper cells. Cell Rep. 2013 Aug 15;4(3):566-77., URL: https://www.ncbi.nlm.nih.gov/pubmed/23933259,*Dai X, Jayapal M, Tay HK, Reghunathan R, Lin G, Too CT, Lim YT, Chan SH, Kemeny DM, Floto RA, Smith KG, Melendez AJ, MacAry PA: Differential signal transduction, membrane trafficking, and immune effector functions mediated by FcgammaRI versus FcgammaRIIa. Blood. 2009 Jul 9;114(2):318-27., URL: https://pubmed.ncbi.nlm.nih.gov/19420354/,*Vely F, Gruel N, Moncuit J, Cochet O, Rouard H, Dare S, Galon J, Sautes C, Fridman WH, Teillaud JL: A new set of monoclonal antibodies against human Fc gamma RII (CD32) and Fc gamma RIII (CD16): characterization and use in various assays. Hybridoma. 1997 Dec;16(6):519-28., URL: https://pubmed.ncbi.nlm.nih.gov/9455704/,*Boruchov AM, Heller G, Veri MC, Bonvini E, Ravetch JV, Young JW: Activating and inhibitory IgG Fc receptors on human DCs mediate opposing functions. J Clin Invest. 2005 Oct;115(10):2914-23., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=boruchov+am+heller+g,

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/human-antibody/cd32/129261>