ARG44055
anti-CD32 antibody [3D3] (APC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [3D3] recognizes CD32
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The mouse monoclonal antibody 3D3 recognizes CD32, a 40 kDa polymorphic transmembrane glycoprotein serving as the low affinity receptor for aggregated IgG. This antibody recognizes CD32 on B cells of all donors, but on platelets, monocytes, and granulocytes of only some donors (131R variant, but not 131H variant).
Host	Mouse
Clonality	Monoclonal
Clone	3D3
Isotype	IgG1
Target Name	CD32
Species	Human
Immunogen	Purified glycosylated recombinant human FcgammaRIIa2
Conjugation	APC
Alternate Names	Fc-gamma RII-a; CD antigen CD32; FcGR; IgG Fc receptor II-a; FCGR2A1; CD32A; FCGR2; Low affinity immunoglobulin gamma Fc region receptor II-a; FcRII-a; Fc-gamma-RIIa; FCG2; IGFR2; CD32; CDw32

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

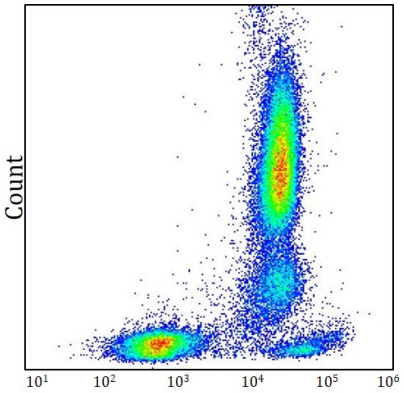
Form	Liquid
Purification	The purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	FCGR2A
Gene Full Name	Fc fragment of IgG, low affinity IIa, receptor (CD32)
Background	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).
Function	Binds to the Fc region of immunoglobulins gamma. Low affinity receptor. By binding to IgG it initiates cellular responses against pathogens and soluble antigens. Promotes phagocytosis of opsonized antigens. [UniProt]
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	35 kDa
PTM	Phosphorylated by SRC-type Tyr-kinases such as LYN, BLK, FYN, HCK and SYK.

Images



ARG44055 anti-CD32 antibody [3D3] (APC) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG44055 anti-CD32 antibody [3D3] (APC) at 10 µl / 10^6 cells dilution.