

PE/Cyanine7 anti-human CD32 Antibody

Catalog# / Size	303213 / 25 tests 303214 / 100 tests
Clone	FUN-2
Regulatory Status	RUO
Workshop	VI B051
Other Names	FCR II, FcγRII
Isotype	Mouse IgG2b, κ
Description	CD32 is a 40 kD polymorphic transmembrane glycoprotein also known as FcγRII and FCRII. It is an immunoglobulin superfamily member expressed on monocytes/macrophages, granulocytes, platelets and B cells. There are at least 6 isoforms of CD32 resulting from alternative mRNA splicing. CD32 mediates phagocytosis and oxidative burst in granulocytes, as well as platelet aggregation and immunomodulation. The extracellular domain of CD32 binds to polymeric and aggregated IgG and immune complexes, while the intracellular domain has been reported to associate with SHP-1 (B1 isoform).

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining ³ of acetone-fixed frozen tissue sections. Clone FUN-2 recognizes both CD32A and CD32B.
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	1. Kishimoto T, <i>et al.</i> 1997. Leucocyte Typing VI Garland Press. London. 2. Lerino F, <i>et al.</i> 1993. <i>J. Immunol.</i> 150:1794. 3. Personal communication. 4. van Tits L, <i>et al.</i> 2005. <i>Arterioscler Thromb Vasc Biol.</i> 25:717. PubMed 5. Smeltz RB. 2007. <i>J. Immunol.</i> 178:4786.
(PubMed link indicates BioLegend citation)	

6. Satta N, *et al.* 2011. *Blood*. 117:5223. [PubMed](#).

Product Citations

1. Bryson BD, *et al.* 2019. *Nat Commun*. 10:2329. [PubMed](#)
2. Gage BK, *et al.* 2020. *Cell Stem Cell*. 27(2):254-269.e9. [PubMed](#)

RRID

AB_2616922 (BioLegend Cat. No. 303213)
AB_2616923 (BioLegend Cat. No. 303214)

Antigen Details

Structure	Ig superfamily, polymorphic transmembrane glycoprotein, 40 kD
Distribution	Monocytes, granulocytes, B cells, platelets
Function	Endocytosis, cytotoxicity, platelet aggregation, B cell function
Ligand/Receptor	Aggregated IgG, immune complex
Cell Type	B cells, Dendritic cells, Granulocytes, Monocytes, Platelets
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules, Fc Receptors
Antigen References	<ol style="list-style-type: none">1. Stuart S, <i>et al.</i> 1989. <i>EMBO J</i>. 8:3657.2. Huang Y, <i>et al.</i> 1999. <i>Scand. J. Immunol</i>. 49:177.3. Hisaka H, <i>et al.</i> 1999. <i>Pathobiology</i> 67:92.
Gene ID	2212

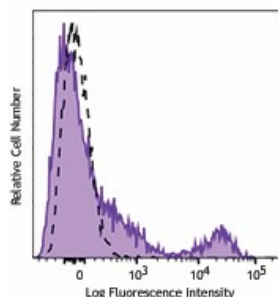
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD32, FITC anti-human CD32, PE anti-human CD32, Purified anti-human CD32, Alexa Fluor® 647 anti-human CD32, PE/Cyanine7 anti-human CD32, PerCP/Cyanine5.5 anti-human CD32, PE/Dazzle™ 594 anti-human CD32, APC/Fire™ 750 anti-human CD32, TotalSeq™-A0142 anti-human CD32, TotalSeq™-C0142 anti-human CD32, TotalSeq™-B0142 anti-human CD32, APC/Cyanine7 anti-human CD32, Biotin anti-human CD32

Product Data



Human peripheral blood lymphocytes were stained with CD32 (clone FUN-2) PE/Cyanine7 (filled histogram) or mouse IgG2b, κ PE/Cyanine7 isotype control (open histogram).

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