

PerCP/Fire™ 780 anti-human CD32B/C Antibody

Catalog# / Size	398335 / 25 tests 398336 / 100 tests
Clone	S18005H
Regulatory Status	RUO
Other Names	FCGR2B, FCgRIIB, FCGR2C, FCRIIC, IGFR2, CD32B, CD32C, FCG2, FCGR2, IGFR2, FcRII-c, CDW32
Isotype	Mouse IgG1, κ
Description	CD32B (FCGR2B) and CD32C (FCGR2C) are 40 kDa, type I transmembrane proteins that are members of the Ig superfamily of low-affinity immunoglobulin gamma Fc receptors. CD32B has a cytoplasmic tail that contains an immunoreceptor tyrosine-based inhibition motif (ITIM), while CD32C contains an immunoreceptor tyrosine-based activation motif (ITAM). CD32B and CD32C are low affinity receptor for monomeric IgG but also bind IgG complexes. CD32B and CD32C are expressed on B cells, subsets of monocytes, macrophages and granulocytes, platelets, mast cells, and is a negative regulator of cell activation, proliferation, endocytosis, phagocytosis, and degranulation.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant Human Fc gamma RIIB/C (CD32b/c) Protein
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 PerCP/Fire™ 780 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Fire 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	As the extracellular region of CD32B and CD32C are identical, this Ab recognizes both isoforms. Does not crossreact with CD32A.
RRID	AB_3675130 (BioLegend Cat. No. 398335) AB_3675130 (BioLegend Cat. No. 398336)

Antigen Details

Structure	Type I transmembrane protein, 40 kDa, member of the Ig superfamily
Distribution	B cells, subsets of monocytes, macrophages and granulocytes, platelets, mast cells.
Function	Negatively regulates cell activation, proliferation, endocytosis, phagocytosis, and degranulation
Ligand/Receptor	Fc region of complex or aggregated immunoglobulins gamma
Cell Type	B cells, Dendritic cells, Granulocytes, Monocytes, Platelets
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules, Fc Receptors
Antigen References	

1. Bruhns P, *et al.* 2009. *Blood*. 113: 3716.
2. Bewarder N, *et al.* 1996. *Mol Cell Biol*. 16: 4735.
3. Descours B, *et al.* 2017. *Nature*. 543: 564.
4. Tomiyama Y, *et al.* 1992. *Blood*. 80: 2261.
5. Indik Z, *et al.* 1991. *J Clin Invest*. 88: 1766.
6. Ramsland PA, *et al.* 2011. *J Immunol*. 187: 3208.
7. Hogarth PM and Pietersz GA. 2012. *Nat Rev Drug Discov*. 11: 311.
8. Bournazos S, *et al.* 2009. *J Immunol*. 182: 8026.
9. Maxwell KF, *et al.* 1999. *Nat Struct Biol*. 6: 437.
10. Sandilands GP, *et al.* 1997. *Immunology*. 91: 204.
11. Ghazizadeh S, *et al.* 1994. *J Biol Chem*. 269: 8878.
12. Gillis C, *et al.* 2014. *Front Immunol*. 5: 254.

Gene ID [2213](#)
[9103](#)

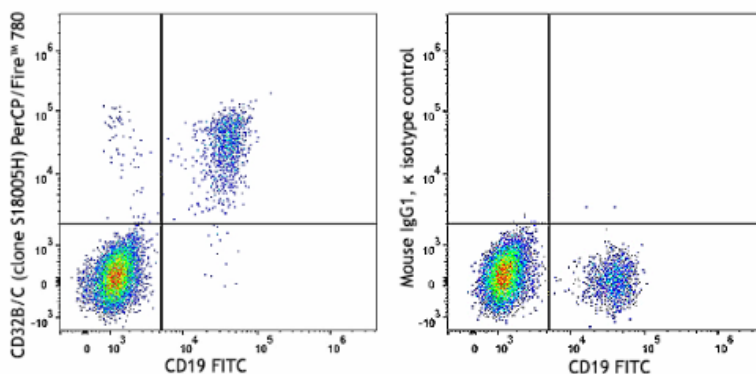
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD32B/C, Alexa Fluor® 647 anti-human CD32B/C, APC anti-human CD32B/C, Alexa Fluor® 700 anti-human CD32B/C Antibody, PerCP/Cyanine5.5 anti-human CD32B/C Antibody, APC/Cyanine7 anti-human CD32B/C Antibody, PE/Cyanine7 anti-human CD32B/C Antibody, PE/Dazzle™ 594 anti-human CD32B/C Antibody, PE anti-human CD32B/C, Alexa Fluor® 488 anti-human CD32B/C, APC/Fire™ 750 anti-human CD32B/C, FITC anti-human CD32B/C, Brilliant Violet 421™ anti-human CD32B/C, TotalSeq™-B1293 anti-human CD32B/C, TotalSeq™-C1293 anti-human CD32B/C, TotalSeq™-A1293 anti-human CD32B/C, PerCP/Fire™ 780 anti-human CD32B/C Antibody, PerCP/Fire™ 806 anti-human CD32B/C, Brilliant Violet 605™ anti-human CD32B/C

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD19 (clone HIB19) FITC and anti-human CD32B/C (clone S18005H) PerCP/Fire™ 780 (left) or mouse IgG1, κ PerCP/Fire™ 780 isotype control (right)

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587