

Brilliant Violet 605™ anti-human CD32B/C Antibody

Catalog# / Size	398337 / 25 tests 398338 / 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 Brilliant Violet 605™ 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.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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Excitation Laser	Violet Laser (405 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_3699048 (BioLegend Cat. No. 398337) AB_3699048 (BioLegend Cat. No. 398338)

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

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

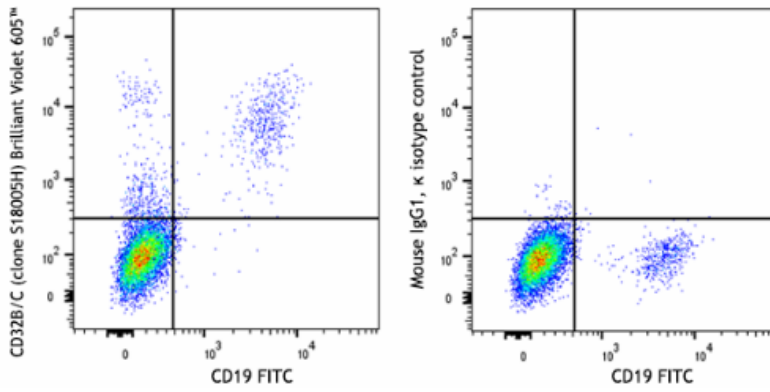
Related Protocols

- [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) Brilliant Violet 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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