

Brilliant Violet 570™ anti-human FCGR2A/CD32A Antibody

Catalog# / Size	365507 / 25 tests
Clone	S20004A
Regulatory Status	RUO
Other Names	FcγRIIa, FCGR2A, CD32A
Isotype	Mouse IgG1, κ
Description	CD32A (FCGR2A) is a 40 kD, type I protein with 2 C2-set domains the extracellular region and 1 ITAM in the intracellular region. CD32A binds monomeric IgG with low affinity but is very efficient binding immune complexes. FCGR2A is expressed by myeloid cells such as macrophages, monocytes, neutrophils, eosinophils and dendritic cells; CD32a is also expressed by epithelial cells, platelets and activated CD4+ T cells. CD32a is involved in phagocytosis and clearing of immune complexes.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	FCGR2A-transfected cells
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 570™ 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	<p>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.</p> <p>Brilliant Violet 570™ excites at 405 nm and emits at 570 nm. The bandpass filter 585/42 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 570™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	This clone does not recognize CD32B-transfected cell

Antigen Details

Structure	Member of the Ig superfamily, 40 kD, type I protein, 2 C2-set domains, 1 ITAM
Distribution	Macrophages, monocytes, neutrophils, eosinophil, platelets, and CD4+ T Cells
Function	Phagocytosis, cytotoxicity, platelet aggregation
Ligand/Receptor	Aggregated IgG, immune complexes
Cell Type	Eosinophils, Granulocytes, Macrophages, Monocytes, Neutrophils, Platelets
Biology Area	Adaptive Immunity, Immunology
Molecular Family	CD Molecules, Fc Receptors
Antigen References	<ol style="list-style-type: none">1. Hubbard J, <i>et al.</i> 2020. <i>J Exp Med.</i> 217:e202003592. Newling M, <i>et al.</i> 2020. <i>Clin Exp Immunol.</i> 199:39-493. Maria H, <i>et al.</i> 2018. <i>Front Immunol.</i> 9:28144. Descours B, <i>et al.</i> 2017. <i>Nature.</i> 543:564-567
Gene ID	NA

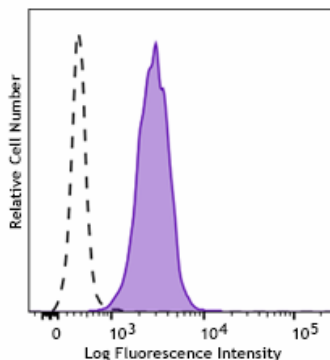
Related Protocols

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

Other Formats

PE anti-human FCGR2A/CD32A, Purified anti-human FCGR2A/CD32A, Brilliant Violet 510™ anti-human FCGR2A/CD32A, Brilliant Violet 570™ anti-human FCGR2A/CD32A

Product Data



Human peripheral blood monocytes were stained with anti-human FCGR2A/CD32A (clone S20004A) Brilliant Violet 570™ (filled histogram) or mouse IgG1, κ Brilliant Violet 570™ isotype control (open histogram).

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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