

## Brilliant Violet 510™ anti-human FCGR2A/CD32A Antibody

<b>Catalog# / Size</b>	365505 / 25 tests
<b>Clone</b>	S20004A
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	FcγRIIa, FCGR2A, CD32A
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	FCGR2A-transfected cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 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 510™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></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>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	This clone does not recognize CD32B-transfected cell

## Antigen Details

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<b>Structure</b>	Member of the Ig superfamily, 40 kD, type I protein, 2 C2-set domains, 1 ITAM
<b>Distribution</b>	Macrophages, monocytes, neutrophils, eosinophil, platelets, and CD4+ T Cells
<b>Function</b>	Phagocytosis, cytotoxicity, platelet aggregation
<b>Ligand/Receptor</b>	Aggregated IgG, immune complexes
<b>Cell Type</b>	Eosinophils, Granulocytes, Macrophages, Monocytes, Neutrophils, Platelets
<b>Biology Area</b>	Adaptive Immunity, Immunology
<b>Molecular Family</b>	CD Molecules, Fc Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Hubbard J, <i>et al.</i> 2020. <i>J Exp Med.</i> 217:e20200359</li><li>2. Newling M, <i>et al.</i> 2020. <i>Clin Exp Immunol.</i> 199:39-49</li><li>3. Maria H, <i>et al.</i> 2018. <i>Front Immunol.</i> 9:2814</li><li>4. Descours B, <i>et al.</i> 2017. <i>Nature.</i> 543:564-567</li></ol>
<b>Gene ID</b>	NA

## Related Protocols

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

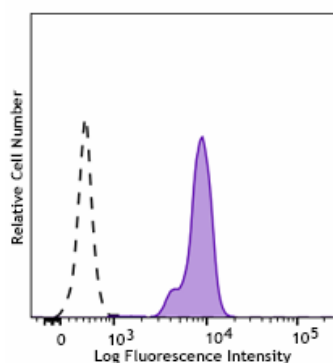
## Other Formats

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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

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Human peripheral blood monocytes were stained with anti-human FCGR2A/CD32A (clone S20004A) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ isotype control (open histogram).

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