

## Brilliant Violet 510™ anti-human CD56 (NCAM) Antibody

<b>Catalog# / Size</b>	362533 / 25 tests 362534 / 100 tests
<b>Clone</b>	5.1H11
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Leu-19, NKH1, NCAM-1
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD56 is a single transmembrane glycoprotein also known as NCAM (neural cell adhesion molecule), Leu-19, or NKH1. It is a member of the Ig superfamily. The 140 kD isoform is expressed on NK and NKT cells. CD56 is also expressed in the brain (cerebellum and cortex) and at neuromuscular junctions. Certain large granular lymphocyte (LGL) leukemias, small-cell lung carcinomas, neuronal derived tumors, myelomas, and myeloid leukemias also express CD56. CD56 plays a role in homophilic and heterophilic adhesion via binding to itself or heparan sulfate.

### Product Details

<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human myotube 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, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<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.</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. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> 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 References</b>	<ol style="list-style-type: none"> <li>Walsh FS, <i>et al.</i> 1981. <i>Nature</i> 289:60. (FC)</li> <li>Pavlati GK, <i>et al.</i> 1986. <i>J. Cell Biol.</i> 102:124. (FC)</li> </ol>
<b>(PubMed link indicates</b>	

**BioLegend citation)** 3. Pavlath GK, *et al.* 1989. *Nature* 337:570. (FC)  
4. Pulido R, *et al.* 1988. *J. Immunol.* 140:3851. (FC)

**Product Citations**  
1. Mukhamedova M, *et al.* 2021. *Immunity.* 54(4):769-780.e6. [PubMed](#)  
2. Rohner L, *et al.* 2020. *Sci Rep.* 0.570833333. [PubMed](#)

**RRID**  
AB\_2565632 (BioLegend Cat. No. 362533)  
AB\_2565633 (BioLegend Cat. No. 362534)

## Antigen Details

**Structure** Ig superfamily, single transmembrane or GPI-anchored glycoprotein  
**Distribution** NK cells, T subset, neural tissue, some LGL and myeloid leukemias  
**Function** Adhesion  
**Ligand/Receptor** Heparan sulfate  
**Antigen References**  
1. Lanier L, *et al.* 1991. *J. Immunol.* 146:4421  
2. Hemperly J, *et al.* 1990. *J. Mol. Neurosci.* 2:71  
3. Cremer H, *et al.* 1994. *Nature* 367:455.  
**Gene ID** [4684](#)

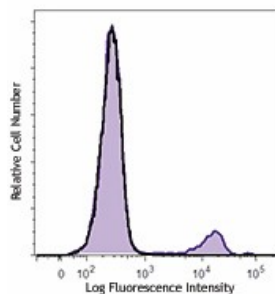
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human CD56 (NCAM), APC anti-human CD56 (NCAM), PerCP/Cyanine5.5 anti-human CD56 (NCAM), PE anti-human CD56 (NCAM), PE/Cyanine7 anti-human CD56 (NCAM), APC/Cyanine7 anti-human CD56 (NCAM), PE/Cyanine5 anti-human CD56 (NCAM), Alexa Fluor® 647 anti-human CD56 (NCAM), Alexa Fluor® 488 anti-human CD56 (NCAM), Pacific Blue™ anti-human CD56 (NCAM), Alexa Fluor® 700 anti-human CD56 (NCAM), PerCP anti-human CD56 (NCAM), Brilliant Violet 650™ anti-human CD56 (NCAM), Brilliant Violet 510™ anti-human CD56 (NCAM), Brilliant Violet 421™ anti-human CD56 (NCAM), Biotin anti-human CD56 (NCAM), Brilliant Violet 605™ anti-human CD56 (NCAM), Brilliant Violet 570™ anti-human CD56 (NCAM), Brilliant Violet 711™ anti-human CD56 (NCAM), PE/Dazzle™ 594 anti-human CD56 (NCAM), FITC anti-human CD56 (NCAM), Brilliant Violet 785™ anti-human CD56 (NCAM), Ultra-LEAF™ Purified anti-human CD56 (NCAM), APC/Fire™ 750 anti-human CD56 (NCAM), Brilliant Violet 750™ anti-human CD56 (NCAM), TotalSeq™-A0047 anti-human CD56 (NCAM), TotalSeq™-C0047 anti-human CD56 (NCAM), TotalSeq™-B0047 anti-human CD56 (NCAM), Spark NIR™ 685 anti-human CD56 (NCAM), KIRAVIA Blue 520™ anti-human CD56 (NCAM), GMP PE anti-human CD56 (NCAM), TotalSeq™-D0047 anti-human CD56 (NCAM), GMP APC anti-human CD56 (NCAM)

## Product Data



Human peripheral blood lymphocytes were stained with CD56 (clone 5.1H11) Brilliant Violet™ 510 (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

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