

## Brilliant Violet 650™ anti-human CD56 (NCAM) Antibody

<b>Catalog# / Size</b>	318343 / 25 tests 318344 / 100 tests
<b>Clone</b>	HCD56
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Leu-19, NKH1
<b>Isotype</b>	Mouse IgG1, $\kappa$
<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 cells and NK-T 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 heparin sulfate.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon, Cynomolgus, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<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 650™ 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 <math>\mu</math>l per million cells in 100 <math>\mu</math>l staining volume or 5 <math>\mu</math>l per 100 <math>\mu</math>l of whole blood.</p> <p>Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 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 650™ 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>	Clone HCD56 is not recommended for immunohistochemistry formalin-fixed paraffin-embedded tissue.

## Application References

1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
2. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) [PubMed](#)

(PubMed link indicates BioLegend citation)

## Product Citations

1. Fu J *et al.* 2019. *Cell stem cell.* 24(2):227-239 . [PubMed](#)
2. Ong SM, *et al.* 2019. *Front Immunol.* 10:1761. [PubMed](#)
3. Bradley T *et al.* 2018. *Cell.* 175(2):387-399 . [PubMed](#)
4. Lee J, *et al.* 2015. *J Exp Med.* 212:385. [PubMed](#)
5. Breton G, *et al.* 2015. *J Exp Med.* 212:401. [PubMed](#)

## RRID

AB\_2562416 (BioLegend Cat. No. 318343)  
AB\_2563838 (BioLegend Cat. No. 318344)

## Antigen Details

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<b>Structure</b>	Ig superfamily, single transmembrane or GPI-anchored glycoprotein
<b>Distribution</b>	NK cells, T subset, neural tissue, some LGL and myeloid leukemias
<b>Function</b>	Adhesion
<b>Ligand/Receptor</b>	Heparin sulfate
<b>Cell Type</b>	B cells, Leukemia, Mesenchymal Stem Cells, Neurons, NK cells, T cells
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Stem Cells, Synaptic Biology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Lanier L, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:4421.</li><li>2. Hemperly J, <i>et al.</i> 1990. <i>J. Mol. Neurosci.</i> 2:71.</li><li>3. Cremer H, <i>et al.</i> 1994. <i>Nature</i> 367:455.</li></ol>
<b>Gene ID</b>	<a href="#">4684</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

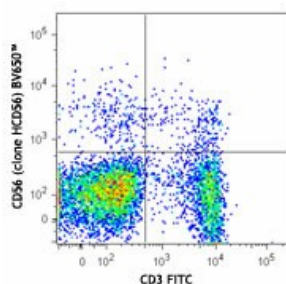
## Other Formats

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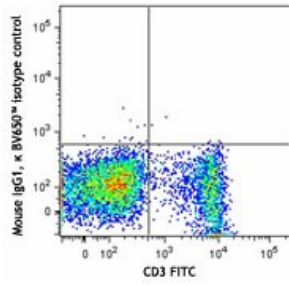
Purified anti-human CD56 (NCAM), FITC anti-human CD56 (NCAM), PE anti-human CD56 (NCAM), PE/Cyanine5 anti-human CD56 (NCAM), APC anti-human CD56 (NCAM), Alexa Fluor® 488 anti-human CD56 (NCAM), Alexa Fluor® 647 anti-human CD56 (NCAM), Alexa Fluor® 700 anti-human CD56 (NCAM), PE/Cyanine7 anti-human CD56 (NCAM), Biotin anti-human CD56 (NCAM), PerCP/Cyanine5.5 anti-human CD56 (NCAM), Pacific Blue™ anti-human CD56 (NCAM), APC/Cyanine7 anti-human CD56 (NCAM), Brilliant Violet 421™ anti-human CD56 (NCAM), Brilliant Violet 570™ anti-human CD56 (NCAM), Brilliant Violet 605™ anti-human CD56 (NCAM), Brilliant Violet 711™ anti-human CD56 (NCAM), Brilliant Violet 510™ anti-human CD56 (NCAM), PerCP anti-human CD56 (NCAM), Brilliant Violet 650™ anti-human CD56 (NCAM), Purified anti-human CD56 (NCAM) (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD56 (NCAM)

## Product Data

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Human peripheral blood lymphocytes were stained with CD3 FITC and CD56 (clone HCD56) Brilliant Violet 650™ (top) or mouse IgG1, κ Brilliant Violet 650™ isotype control (bottom).



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