

## Cell-Vive™ GMP Ultra-LEAF™ Biotin anti-human CD56 (NCAM) SF Antibody

<b>Catalog# / Size</b>	362573 / 100 µg 362574 / 1 mg
<b>Clone</b>	5.1H11
<b>Other Names</b>	Leu-19, NKH1
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	<p>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.</p> <p>Cell-Vive™ GMP Ultra-LEAF™ Biotin anti-human CD56 (NCAM) SF Antibody was GMP manufactured under serum-free conditions including serum-free hybridoma cell culture, without additional animal or human-derived materials or preservatives. This antibody contains ultra-low levels of endotoxin (&lt;0.01 EU/µg of protein), is filtered through a 0.1 µm membrane, and is tested negative for mycoplasma and microbial growths.</p> <p>Cell-Vive™ GMP Ultra-LEAF™ Biotin anti-human CD56 (NCAM) SF Antibody is for research and further <i>ex vivo</i> cell processing use only.</p>

<b>Quality Statement</b>	<p>BioLegend Cell-Vive™ GMP Ultra-LEAF™ antibodies are manufactured and tested in accordance with USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and Ph. Eur. Chapter 5.2.12 in a dedicated GMP facility compliant with ISO 13485:2016. Specifications and processes include:</p> <ul style="list-style-type: none"> <li>- Ultra-Low endotoxin level (&lt;0.01 EU/µg)</li> <li>- Manufactured under serum-free conditions</li> <li>- Bults tested negative for mycoplasma and bacterial/fungal growth</li> <li>- Serum-free hybridomas are negative for the presence of murine virus</li> <li>- Batch-to-batch consistency</li> <li>- Vendor qualification</li> <li>- Raw material traceability and documentation</li> <li>- Documented procedures and employee training</li> <li>- Equipment maintenance and monitoring records</li> <li>- Lot-specific certificates of analysis</li> <li>- QA review of released products</li> <li>- Quality audits per ISO 13485:2016</li> </ul>
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### Product Details

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<b>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human myotube cells
<b>Formulation</b>	0.1 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.
<b>Endotoxin Level</b>	< 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test
<b>Preparation</b>	Serum-Free hybridoma derived Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody purified by affinity chromatography
<b>Concentration</b>	1.0 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.

<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	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 $\leq 0.5 \mu\text{g}$ per million cells in 100 $\mu\text{L}$ volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	Cell-Vive™ GMP Ultra-LEAF™ Biotin anti-human CD56 (NCAM) SF Antibody (Endotoxin < 0.01 EU/ $\mu\text{g}$ , Azide-Free, 0.1 $\mu\text{m}$ filtered) is recommended for highly sensitive assays. The antibody was GMP manufactured under serum-free conditions including serum-free hybridoma cell culture, without additional animal or human-derived materials or preservatives. This antibody is intended for flow cytometry and for research or further <i>ex vivo</i> cell processing use only.
<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>Pavlath GK, <i>et al.</i> 1986. <i>J. Cell Biol.</i> 102:124. (FC)</li> <li>Pavlath GK, <i>et al.</i> 1989. <i>Nature</i>. 337:570. (FC)</li> <li>Pulido R, <i>et al.</i> 1988. <i>J. Immunol.</i> 140:3851. (FC)</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Disclaimer</b>	BioLegend Cell-Vive™ GMP Ultra-LEAF™ antibodies are for research use only. Suitable for <i>ex vivo</i> cell processing. Not for injection or diagnostic or therapeutic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

## Antigen Details

<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>	Heparan sulfate
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>Lanier L, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:4421</li> <li>Hemperly J, <i>et al.</i> 1990. <i>J. Mol. Neurosci.</i> 2:71</li> <li>Cremer H, <i>et al.</i> 1994. <i>Nature</i>. 367:455.</li> </ol>
<b>Gene ID</b>	<a href="#">4684</a>

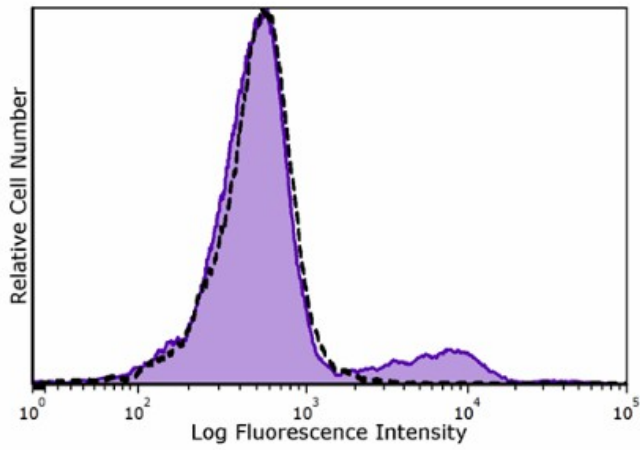
## Related Protocols

[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), Spark YG™ 593 anti-human CD56 (NCAM), Cell-Vive™ GMP Ultra-LEAF™ Purified anti-human CD56 (NCAM) SF, Spark Red™ 718 anti-human CD56 (NCAM)

## Product Data



Human peripheral leukocytes were stained with Cell-Vive™ GMP Ultra-LEAF™ Biotin anti-human CD56 (NCAM) SF antibody (clone 5.1H11, filled histogram) or isotype control (clone MOPC-21, open histogram) followed by PE Streptavidin stain.

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