

## FITC anti-human CD56 (NCAM) Antibody

<b>Catalog# / Size</b>	318303 / 25 tests 318304 / 100 tests
<b>Clone</b>	HCD56
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Leu-19, NKH1
<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 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

<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 FITC 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>	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.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Clone HCD56 is not recommended for immunohistochemistry formalin-fixed paraffin-embedded tissue.
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> <li>1. Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.</li> <li>2. Correia DV, <i>et al.</i> 2011. <i>Blood</i> 118:992. (FC) <a href="#">PubMed</a></li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Carre C, <i>et al.</i> 2021. <i>iScience</i>. 24:102970. <a href="#">PubMed</a></li> <li>2. Kim MY, <i>et al.</i> 2021. <i>JCI Insight</i>. 6:. <a href="#">PubMed</a></li> <li>3. Nakano M, <i>et al.</i> 2021. <i>Front Immunol</i>. 12:713225. <a href="#">PubMed</a></li> <li>4. Hess NJ, <i>et al.</i> 2020. <i>J Immunol</i>. 205:272. <a href="#">PubMed</a></li> <li>5. Barry KC, <i>et al.</i> 2018. <i>Nat Med</i>. 24:1178. <a href="#">PubMed</a></li> <li>6. Hagan T, <i>et al.</i> 2020. <i>Cell</i>. 178(6):1313-1328.e13.. <a href="#">PubMed</a></li> <li>7. Nakajima K, <i>et al.</i> 2011. <i>J Immunol</i>. 186:4481. <a href="#">PubMed</a></li> <li>8. Devalraju KP, <i>et al.</i> 2021. <i>PLoS One</i>. 16:e0257185. <a href="#">PubMed</a></li> <li>9. Palamides P, <i>et al.</i> 2016. <i>Dis Model Mech</i>. 9: 985 - 997. <a href="#">PubMed</a></li> </ol>

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**RRID** AB\_604091 (BioLegend Cat. No. 318303)  
 AB\_604100 (BioLegend Cat. No. 318304)

## 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>	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

[Cell Surface Flow Cytometry Staining Protocol](#)

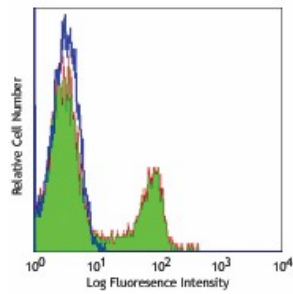
## Other Formats

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  
stained with HCD56 FITC

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