

## 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>

10. Sutton HJ, *et al.* 2021. Cell Reports. 34(6):108684. [PubMed](#)
11. Gorvel L, *et al.* 2017. J Immunol. 10.4049/jimmunol.1601477. [PubMed](#)
12. Kim ST, *et al.* 2022. Nat Commun. 13:1970. [PubMed](#)
13. Kobayashi Y, *et al.* 2020. Int J Oncol. 999:56. [PubMed](#)
14. Agha O, *et al.* 2020. JOR Spine. 3:e1091. [PubMed](#)
15. Cai D, *et al.* 2021. Front Mol Biosci. 8:686803. [PubMed](#)
16. Fisher J, *et al.* 2017. Mol Ther. 10.1016/j.ymthe.2017.03.002. [PubMed](#)
17. Sweeney EE, *et al.* 2020. Nano Res. 13:736. [PubMed](#)
18. Brown CC, *et al.* 2020. Cell. 179(4):846-863.e24. [PubMed](#)
19. Wang F, *et al.* 2021. Cell. 184(2):422-440.e17. [PubMed](#)
20. Zhu Y, *et al.* 2019. Cell Stem Cell. 25:542. [PubMed](#)
21. Huang Y, *et al.* 2008. J Immunol. 180:2367. [PubMed](#)
22. Zhang X, *et al.* 2021. Front Immunol. 12:602492. [PubMed](#)
23. Bochem J, *et al.* 2019. PLoS One. 14:e0221301. [PubMed](#)
24. Xu P, *et al.* 2020. Cancer Immunol Res. 8:1193. [PubMed](#)
25. Li YR, *et al.* 2021. Cell Rep Med. 2:100449. [PubMed](#)
26. Horn LA, *et al.* 2017. Oncotarget. 8:57964. [PubMed](#)
27. Motwani MP, *et al.* 2018. JCI Insight. 3:e94463. [PubMed](#)
28. Yao C, *et al.* 2018. Autophagy. 1.854861111. [PubMed](#)
29. Bradley D, *et al.* 2022. Nat Commun. 13:5606. [PubMed](#)
30. Weiss R, *et al.* 2021. Cells. 10: [PubMed](#)
31. Kim ST, *et al.* 2021. J Immunother Cancer. 9: [PubMed](#)
32. Ruth JH, *et al.* 2021. JCI Insight. 6:e145662. [PubMed](#)
33. Kwok I, *et al.* 2020. Immunity. 53(2):303-318.e5. [PubMed](#)
34. Beyer AI, *et al.* 2017. Stem Cells Dev. 26:102. [PubMed](#)
35. Wang SQ, *et al.* 2021. J Viral Hepat. 28:795. [PubMed](#)
36. Pappa V, *et al.* 2021. J Neuroimmunol. 353:577524. [PubMed](#)
37. Ceglia V, *et al.* 2022. Front Immunol. 12:786144. [PubMed](#)
38. Kim N, *et al.* 2020. Nat Commun. 2.045138889. [PubMed](#)

**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](#)

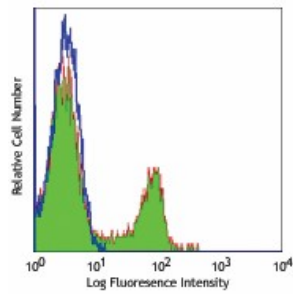
## Other Formats

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

---



Human peripheral blood lymphocytes  
stained with HCD56 FITC

For research use only. Not for diagnostic 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.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587