

APC/Cyanine7 anti-human CD56 (NCAM) Antibody

Catalog# / Size	318331 / 25 tests 318332 / 100 tests
Clone	HCD56
Regulatory Status	RUO
Other Names	Leu-19, NKH1
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . 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.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone HCD56 is not recommended for immunohistochemistry formalin-fixed paraffin-embedded tissue.
Additional Product Notes	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London. 2. Correia DV, <i>et al.</i> 2011. <i>Blood</i> 118:992. (FC) PubMed
Product Citations	<ol style="list-style-type: none"> 1. Xu H, <i>et al.</i> 2019. <i>Cell Stem Cell</i>. 24:566. PubMed 2. Cella M, <i>et al.</i> 2019. <i>Nat Immunol</i>. 1.513888889. PubMed 3. Friebe E, <i>et al.</i> 2020. <i>Cell</i>. 181(7):1626-1642.e20. PubMed 4. Nagafuchi Y, <i>et al.</i> 2016. <i>Sci Rep</i>. 6:29338. PubMed 5. Boisson B, <i>et al.</i> 2015. <i>J Exp Med</i>. 212:939. PubMed

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RRID AB_10898118 (BioLegend Cat. No. 318331)
 AB_10896424 (BioLegend Cat. No. 318332)

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	Heparin sulfate
Cell Type	B cells, Leukemia, Mesenchymal Stem Cells, Neurons, NK cells, T cells
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Stem Cells, Synaptic Biology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Lanier L, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:4421. 2. Hemperly J, <i>et al.</i> 1990. <i>J. Mol. Neurosci.</i> 2:71. 3. Cremer H, <i>et al.</i> 1994. <i>Nature</i> 367:455.
Gene ID	4684

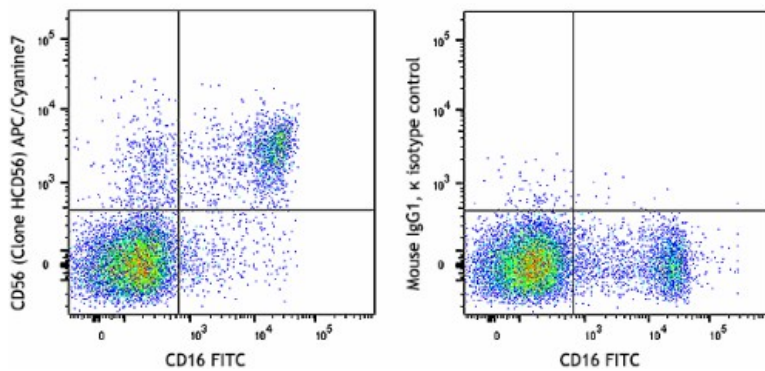
Related Protocols

[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 lymphocytes were stained with CD16 FITC and CD56 (clone HCD56) APC/Cyanine7 (left) or Mouse IgG1, κ APC/Cyanine7 isotype control (right)

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