BioLegend®

Version: 1 Revision Date: 11/25/2024

Brilliant Violet 421™ anti-human CD56 (NCAM) Antibody

Catalog# / Size	343759 / 25 tests 343760 / 100 tests
Clone	W22097A
Regulatory Status	RUO
Other Names	Leu-19, NKH1, NCAM-1
Isotype	Rat IgG2a, κ
Description	CD56, also known as NCAM (neural cell adhesion molecule), Leu-19, or NKH1, is a single transmembrane glycoprotein. 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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mammalian-derived recombinant protein aa 20-718
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 Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. 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.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Flow cytometry testing showed that clone W22097A can block the binding of clone HCD56 and W22098E on target cells.

Flow cytometry testing showed that clone W22097A does not affect the binding of clone MEM-188, 5.1H11 and W22098A on target cells.

RRID	AB_3683361 (BioLegend Cat. No. 343759) AB_3683361 (BioLegend Cat. No. 343760)

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	Heparan sulfate
Cell Type	Leukemia, Neurons, NK cells, NKT cells
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Lanier L, *et al*. 1991. *J Immunol*. 146:4421-6. 2. Hemperly J, *et al.* 1990. *J Mol Neurosci.* 2:71-8. 3. Cremer H, *et al*. 1994. *Nature*. 367:455-9.
Gene ID	4684

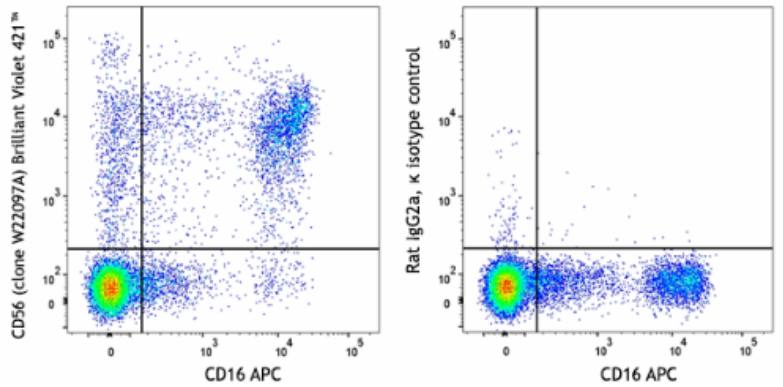
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD56 (NCAM), PE anti-human CD56 (NCAM), PE/Cyanine7 anti-human CD56 (NCAM), APC anti-human CD56 (NCAM) Antibody, Brilliant Violet 421™ anti-human CD56 (NCAM), Brilliant Violet 605™ anti-human CD56 (NCAM)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD16 (clone 3G8) APC and anti-human CD56 (NCAM) (clone W22097A) Brilliant Violet 421™ (left) or rat IgG2a, κ Brilliant Violet 421™ isotype control (right).

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