SONY

Product Data Sheet

Pacific Blue™ anti-human CD56 (NCAM)

Catalog # / Size: 2191625 / 25 µg
2191630 / 100 µg

Clone: HCD56

Isotype: Mouse IgG1, κ

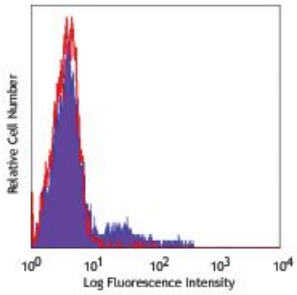
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: HCDM listed

Concentration: 0.5



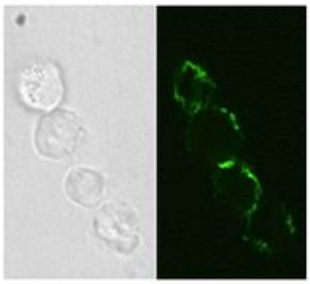
Human peripheral blood lymphocytes stained with HCD56 Pacific Blue™

Applications:

Applications: Flow Cytometry

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 ≤2.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.



Human NK-92 cells were stained with CD56 (clone HCD56) Biotin, and then secondarily stained with Streptavidin-Alexa Fluor® 488. Cells were imaged with a Zeiss Axio Observer Z1 spinning disc confocal, average exposure time ~0.23 seconds. Credit: Dr. Jordan Orange and Dr. Emily Mace, University of Pennsylvania School of Medicine Children's Hospital of Philadelphia, Division of Immunology.

Application References:

1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
2. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) PubMed

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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.

Antigen References:

1. Lanier L, *et al.* 1991. *J. Immunol.* 146:4421.
2. Hemperly J, *et al.* 1990. *J. Mol. Neurosci.* 2:71.
3. Cremer H, *et al.* 1994. *Nature* 367:455.

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