

Pacific Blue™ anti-human CD56 (NCAM)

Catalog # / Size: 2123145 / 100 tests
2123120 / 100 µg

Clone: MEM-188

Isotype: Mouse IgG2a, κ

Immunogen: KG-1 human acute myelogenous leukemia cell line

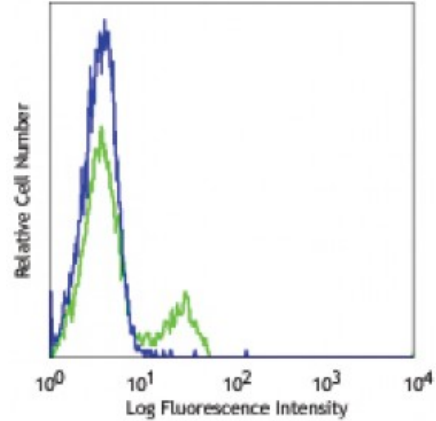
Reactivity: Human

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

Formulation: test size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
microg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: VI NK26

Concentration: microg sizes: 0.5 mg/ml
test sizes: lot-specific



Human peripheral blood lymphocytes stained with MEM-188 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 test size, the suggested use of this reagent for immunofluorescent staining is 5 microL per million cells or 5 microL per 100 microL of whole blood.
For microg size, the suggested use of this reagent for immunofluorescent staining is ≤2.0 microg per million cells in 100 microL volume or 100 microL 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.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation, immunohistochemical staining of formalin-fixed paraffin-embedded tissue sections, and Western blotting (non-reducing).

Application References: 1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
2. Hanaoka N, *et al.* 2010. *J. Immunol.* 185:5732. [PubMed](#)

Description: CD56 is a single transmembrane glycoprotein also known as N-CAM (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

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.