

# PE Mouse anti-Human CD56/NCAM mAb

**Catalog No.: A27313**

## Basic Information

**Observed MW****Calculated MW**

95kDa

**Category**

Primary antibody

**Applications**

FC

**Cross-Reactivity**

Human

**CloneNo number**

AMC10007

**Conjugate**

PE. Ex:565nm. Em:574nm.

## Background

This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein plays a role in the development of the nervous system by regulating neurogenesis, neurite outgrowth, and cell migration. This protein is also involved in the expansion of T lymphocytes, B lymphocytes and natural killer (NK) cells which play an important role in immune surveillance. This protein plays a role in signal transduction by interacting with fibroblast growth factor receptors, N-cadherin and other components of the extracellular matrix and by triggering signalling cascades involving FYN-focal adhesion kinase (FAK), mitogen-activated protein kinase (MAPK), and phosphatidylinositol 3-kinase (PI3K). One prominent isoform of this gene, cell surface molecule CD56, plays a role in several myeloproliferative disorders such as acute myeloid leukemia and differential expression of this gene is associated with differential disease progression. For example, increased expression of CD56 is correlated with lower survival in acute myeloid leukemia patients whereas increased severity of COVID-19 is correlated with decreased abundance of CD56-expressing NK cells in peripheral blood. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms.

## Recommended Dilutions

**FC** 5 µl per 10<sup>6</sup> cells in  
100 µl volume

## Immunogen Information

**Gene ID**

4684

**Swiss Prot**

P13591

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

CD56; NCAM; MSK39

## Contact

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## Product Information

**Source**

Mouse

**Isotype**

IgG

**Purification**

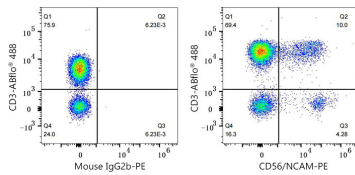
Affinity purification

**Storage**

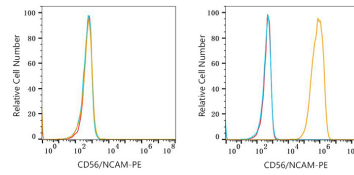
Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data



Flow cytometry: 1X10<sup>6</sup> Human PBMC cells were surface-stained with ABflo® 488 Rabbit anti-Human CD3 mAb (A26283, 5 µl/Test) and PE Rabbit IgG isotype control (A24172, 5 µl/Test, left) or PE Mouse anti-Human CD56/NCAM mAb (A27313, 5 µl/Test, right). Cells in the lymphocyte gate were used for analysis.



Flow cytometry: 1X10<sup>6</sup> MCF7 cells (negative control, left) and SH-SY5Y cells (right) were surface-stained with PE Mouse anti-Human CD56/NCAM mAb (A27313, 5 µl/Test, orange line) or PE Rabbit IgG isotype control (A24172, 5 µl/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).