

# APC Mouse anti-Human CD56/NCAM-1 mAb

**Catalog No.: A22827**

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

95kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Human

### CloneNo number

AMC0544

### Conjugate

APC. Ex:650nm. Em:660nm.

## Recommended Dilutions

**FC** 10  $\mu$ L/Test

## 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.

## 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

IgG1

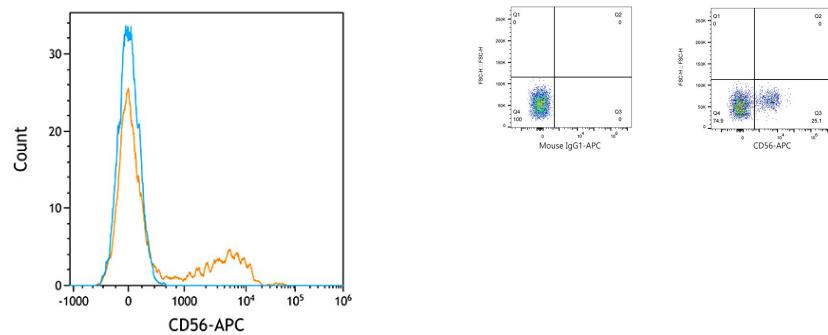
### Purification

Affinity purification

### Storage

Store at 4°C. Avoid freeze / thaw cycles.  
Buffer: PBS with 0.1% Proclin300, 0.2% BSA, pH7.2.

## Validation Data



Flow cytometry: 1X10<sup>6</sup> Human PBMC were surface-stained with APC Mouse anti-Human CD56 mAb (A22827, orange line) or APC Mouse IgG1 isotype control mAb (A22879, blue line).

Flow cytometry: 1X10<sup>6</sup> Human PBMC were surface-stained with APC Mouse IgG1 isotype control mAb (A22879, left) or APC Mouse anti-Human CD56 mAb (A22827, right).