

# ABflo® 500 Mouse anti-Human CD56/NCAM-1 mAb

Catalog No.: A26643

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

40kDa/73kDa/80kDa/83kDa/93kDa/95kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Human

### CloneNo number

AMC0687

### Conjugate

ABflo® 500. Ex:410nm. Em:501nm.

## Recommended Dilutions

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

## 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

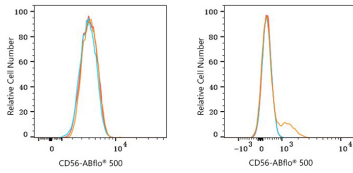
Affinity purification

### Storage

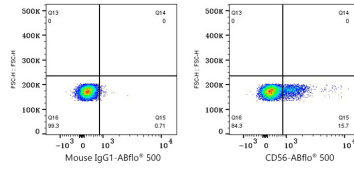
Store at 2-8°C. Avoid freeze.

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

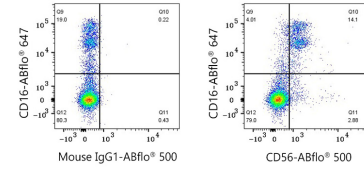
## Validation Data



Flow cytometry:  $1 \times 10^6$  HeLa cells (negative control, left) and Human PBMC (right) were surface-stained with ABflo® 500 Mouse anti-Human CD56 mAb (A26643, 5  $\mu$ l/Test, orange line) or ABflo® 500 Mouse IgG1 isotype control (5  $\mu$ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line). Cells in the Lymphocytes gate were used for analysis.



Flow cytometry:  $1 \times 10^6$  Human PBMC were surface-stained with ABflo® 500 Mouse IgG1 isotype control (5  $\mu$ l/Test, left) or ABflo® 500 Mouse anti-Human CD56 mAb (A26643, 5  $\mu$ l/Test, right). Cells in the Lymphocytes gate were used for analysis.



Flow cytometry:  $1 \times 10^6$  Human PBMC were surface-stained with ABflo® 647 Rabbit anti-Human CD16 mAb (A23400, 5  $\mu$ l/Test) and ABflo® 500 Mouse IgG1 isotype control (5  $\mu$ l/Test, left) or ABflo® 500 Mouse anti-Human CD56 mAb (A26643, 5  $\mu$ l/Test, right). Cells in the Lymphocytes gate were used for analysis.