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ABflo® 488 Mouse anti-Human CD56 mAb

Catalog No.: A26870

Basic Information

Observed MW

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

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human

CloneNo number
AMC0687-ABf488

Conjugate
ABflo® 488. Ex:491nm. Em:516nm.

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 10^6 cells in 100 µl volume

Immunogen Information

Gene ID
4684

Swiss Prot
P13591

Immunogen
A synthesized peptide derived from human CD56.

Synonyms
CD56; NCAM; MSK39

Contact

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Product Information

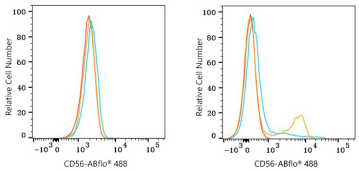
Source
Mouse

Isotype
IgM

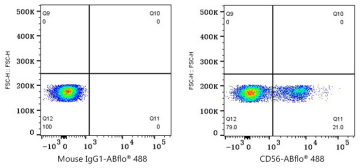
Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.

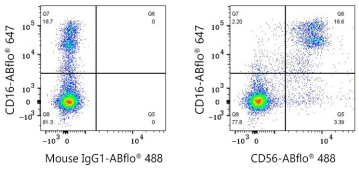
Validation Data



Flow cytometry: 1X10^6 Hela cells (negative control,left) and Human PBMC (right) were surface-stained with ABflo® 488 Mouse anti-Human CD56 mAb (A26870,5 µl/Test,orange line) or ABflo® 488 Mouse IgG1 isotype control (A25487,5 µl/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: 1X10^6 Human PBMC were surface-stained with ABflo® 488 Mouse IgG1 isotype control (A25487,5 µl/Test,left) or ABflo® 488 Mouse anti-Human CD56 mAb (A26870,5 µl/Test,right).Cells in the Lymphocytes gate were used for analysis.



Flow cytometry: 1X10^6 Human PBMC were surface-stained with ABflo® 647 Rabbit anti-Human CD16 mAb (A23400,5 µl/Test) and ABflo® 488 Mouse IgG1 isotype control (A25487,5 µl/Test,left) or ABflo® 488 Mouse anti-Human CD56 mAb (A26870,5 µl/Test,right). Cells in the Lymphocytes gate were used for analysis.