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PE/Cyanine7 Mouse anti-Human CD56/NCAM-1 mAb

Catalog No.: A22829

Basic Information

Observed MW
Refer to figures

Calculated MW
95kDa

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human

CloneNo number
AMC0544

Conjugate
PE-Cy7. Ex:565nm. Em:778nm.

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	10 µL/Test

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

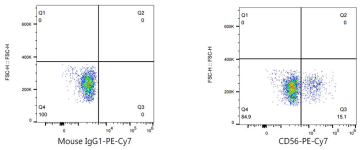
Source
Mouse

Isotype
IgG1

Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Flow cytometry:1X10^6 Human PBMC were surface-stained with Isotype control mAb (left) or PE-Cy7 Mouse anti-Human CD56 mAb (A22829, right).

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