Leader in Biomolecular Solutions for Life Science

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ABflo® 450 Rabbit anti-Human CD13/ANPEP mAb

Catalog No.: A26272

Basic Information

Observed MW
Refer to figures

Calculated MW
110kDa

Category
Primary antibody

Applications
FC

Cross-Reactivity
Human

CloneNo number
ARC53703

Conjugate
ABflo® 450. Ex:406nm. Em:445nm.

Background

Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. This membrane-bound zinc metalloprotease is known to serve as a receptor for the HCoV-229E alphacoronavirus as well as other non-human coronaviruses. This gene has also been shown to promote angiogenesis, tumor growth, and metastasis and defects in this gene are associated with various types of leukemia and lymphoma.

Recommended Dilutions

FC	5 µl per 10^6 cells in 100 µl volume

Immunogen Information

Gene ID
290

Swiss Prot
P15144

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

Synonyms
APN; AP-M; AP-N; CD13; LAP1; P150; PEPN; hAPN; GP150

Contact

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Product Information

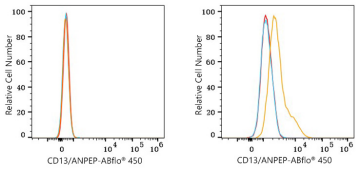
Source
Rabbit

Isotype
IgG

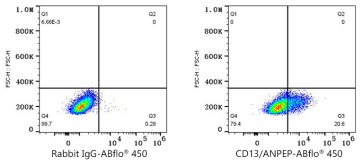
Purification
Affinity purification

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

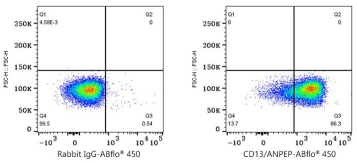
Validation Data



Flow cytometry: 1X10^6 Jurkat cells (negative control,left) and Hep G2 cells (right) were surface-stained with ABflo® 450 Rabbit anti-Human CD13/ANPEP mAb (A26272,5 µl/Test,orange line) or ABflo® 450 Rabbit IgG isotype control (5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 Hep G2 cells were surface-stained with ABflo® 450 Rabbit IgG isotype control (5 µl/Test,left) or ABflo® 450 Rabbit anti-Human CD13/ANPEP mAb (A26272,5 µl/Test,right).



Flow cytometry: 1X10^6 Human PBMC were surface-stained with ABflo® 450 Rabbit IgG isotype control (5 µl/Test,left) or ABflo® 450 Rabbit anti-Human CD13/ANPEP mAb (A26272,5 µl/Test,right). Cells in the monocyte gate were used for analysis.