CD13/ANPEP Rabbit mAb

Catalog NO.: A21268 Recombinant

Basic Information

Observed MW
160kDa

Calculated MW
110kDa

Category
Monoclonal Antibodies

Applications
WB, IHC-P, FC, ELISA

Cross-Reactivity
Human

Conjugation
Unconjugated

Clone number
ARC53706

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

WB	1:2000 - 1:10000
IHC-P	1:100 - 1:500
FC	1:50 - 1:200

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

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; CD13/ANPEP

Contact

Product Information

order@abclonal.com
service@abclonal.com
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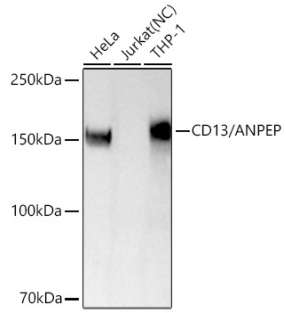
Source
Rabbit

Isotype
IgG

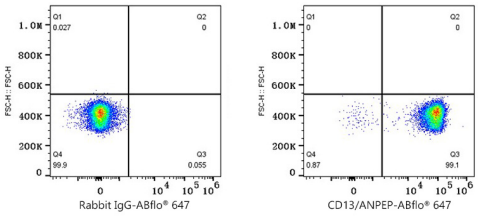
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

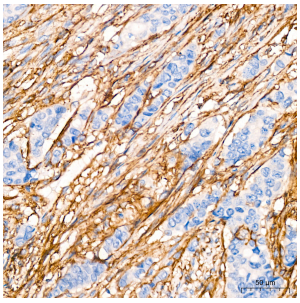
Validation Data

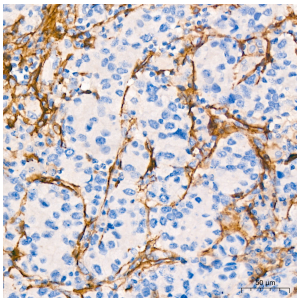


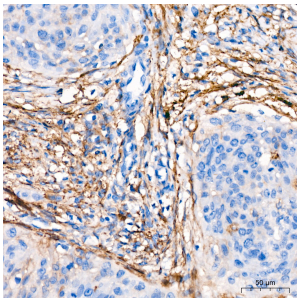
Western blot analysis of various lysates using CD13/ANPEP Rabbit mAb (A21268) at 1:5000 dilution .
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Jurkat.
Exposure time: 90 s.



Flow cytometry: 1X10^6 Human PBMC were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or CD13/ANPEP Rabbit mAb (A21268,2 µg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Cells in the monocyte gate were used for analysis.





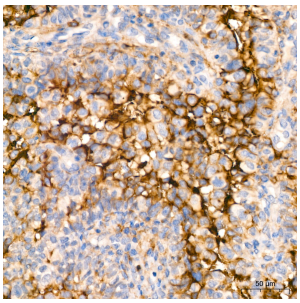


Immunohistochemistry analysis of paraffin-embedded Human breast cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

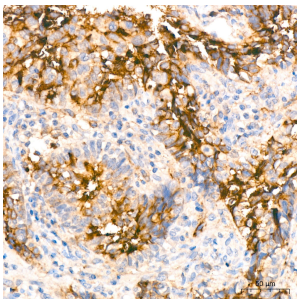
Immunohistochemistry analysis of paraffin-embedded Human breast using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human cervical squamous cell carcinoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

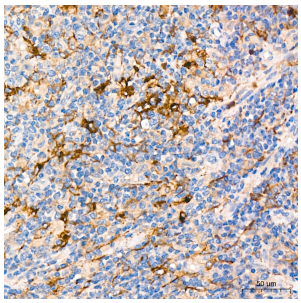
Validation Data



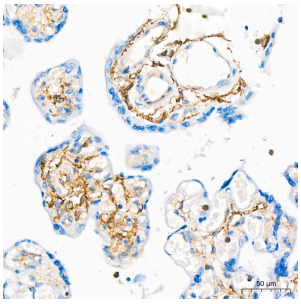
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



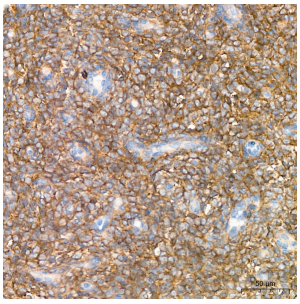
Immunohistochemistry analysis of paraffin-embedded Human endometrium cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human extranodal NK-T cell lymphoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human placenta using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human endometrial stromal sarcoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

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