

A21268

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CD13/ANPEP Rabbit mAb

Catalog No.: A21268

Recombinant

Basic Information

Observed MW

160kDa

Calculated MW

110kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

WB,IHC-P,FC,ELISA

Cross-Reactivity

Human

CloneNo number

ARC53706

Recommended Dilutions

WB 1:10000 - 1:40000

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.

Contact



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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.

Immunogen Information

Gene ID

290

Swiss Prot

P15144

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 69-967 of human CD13/ANPEP (NP_001141.2).

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

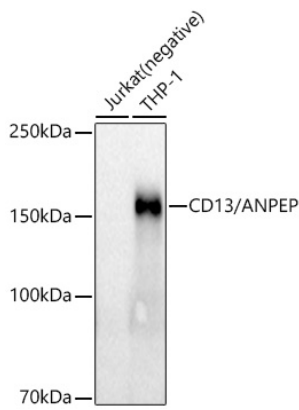
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates using CD13/ANPEP Rabbit mAb (A21268) at 1:40000 dilution.

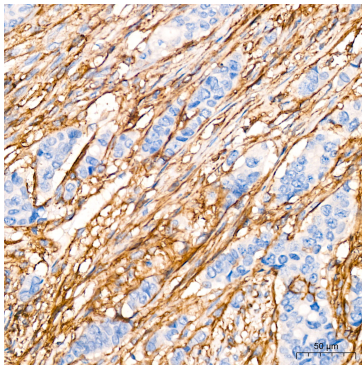
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

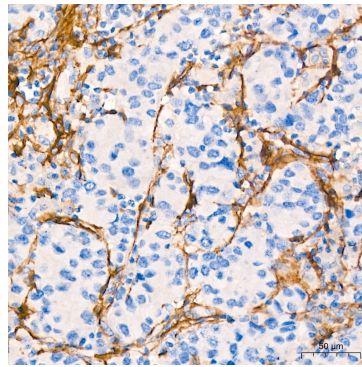
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

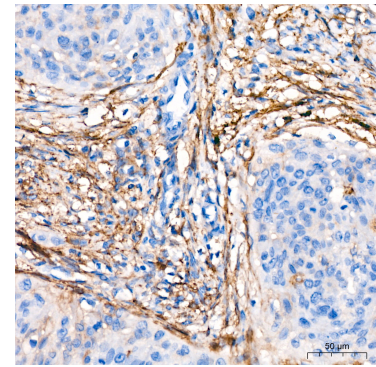
Exposure time: 90s.



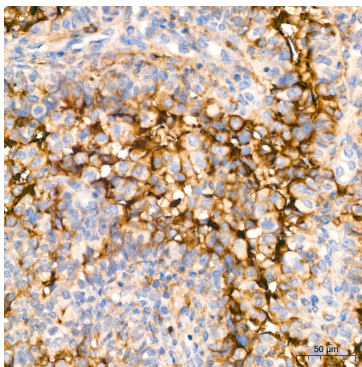
Immunohistochemistry analysis of paraffin-embedded Human breast cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



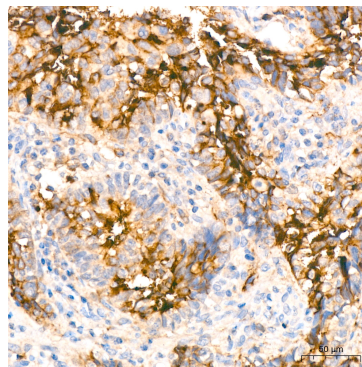
Immunohistochemistry analysis of paraffin-embedded Human breast cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



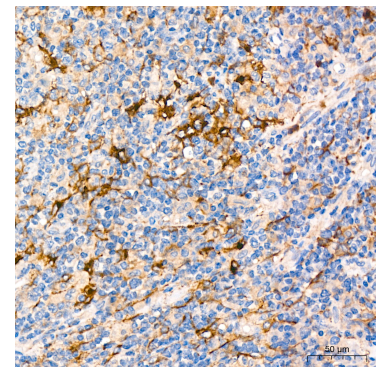
Immunohistochemistry analysis of paraffin-embedded Human cervical squamous cell carcinoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



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.

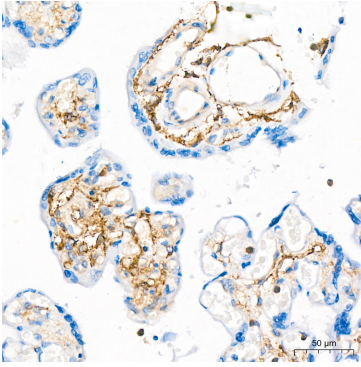


Immunohistochemistry analysis of paraffin-embedded Human endometrium cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

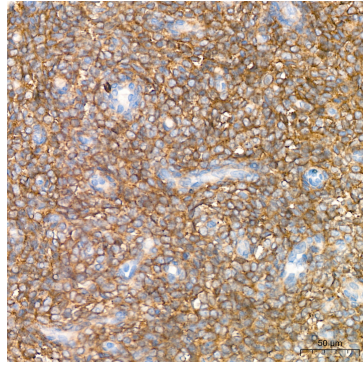


Immunohistochemistry analysis of paraffin-embedded Human extranodal NK-T cell lymphoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

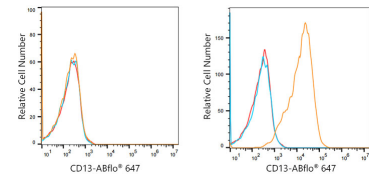
Validation Data



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.



Flow cytometry: 1×10^6 Jurkat cells (negative control, left) and HepG2 cells (right) were surface-stained with CD13/ANPEP Rabbit mAb (A21268, 2.5 $\mu\text{g}/\text{mL}$, orange line) or Rabbit IgG isotype control (AC042, 10 $\mu\text{g}/\text{mL}$, blue line), followed by Alexa Fluor 647 conjugated goat anti-mouse pAb (1:600 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).