

CD13/ANPEP Rabbit mAb

Catalog No.: A21268 **Recombinant**

Basic Information

Observed MW

160kDa

Calculated MW

110kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, FC

Cross-Reactivity

Human

CloneNo 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	1:10000 - 1:40000
IHC-P	1:100 - 1:500
FC	1:50 - 1:200

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

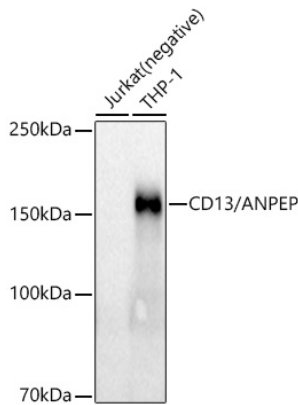
Affinity purification

Storage

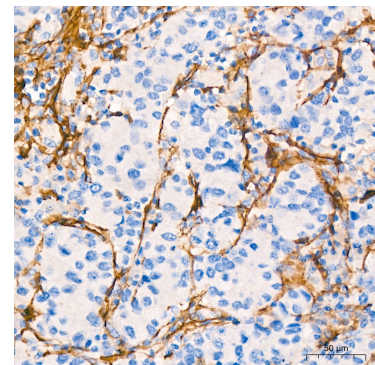
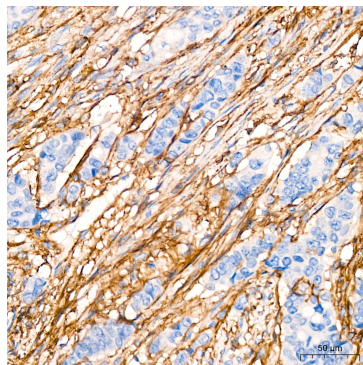
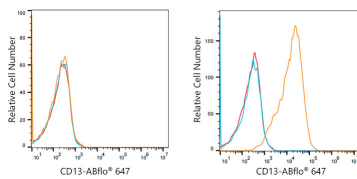
Store at -20°C. Avoid freeze / thaw cycles.

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

Validation Data



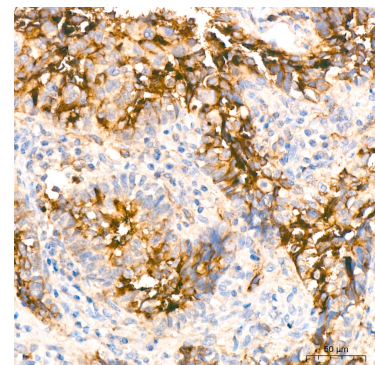
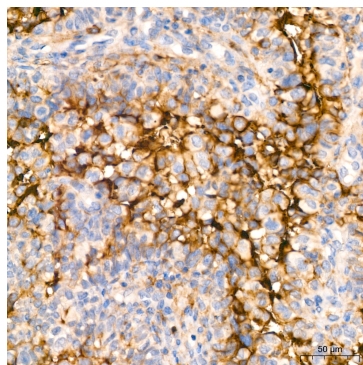
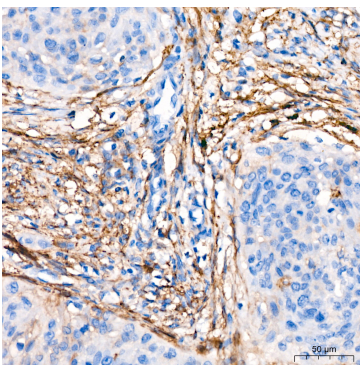
Western blot analysis of various lysates using CD13/ANPEP Rabbit mAb (A21268) at 1:40000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



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 µg/mL, orange line) or Rabbit IgG isotype control (AC042, 10 µg/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).

Immunohistochemistry analysis of paraffin-embedded human breast cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry analysis of paraffin-embedded human breast using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

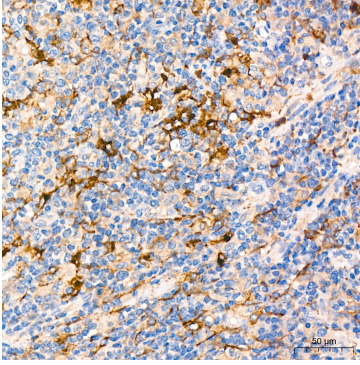


Immunohistochemistry analysis of paraffin-embedded Human cervical squamous cell carcinoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

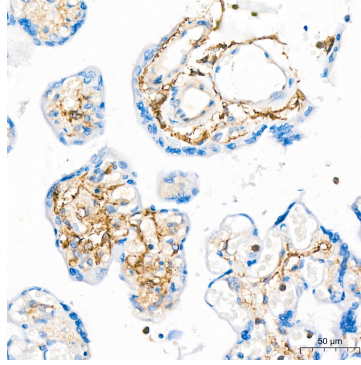
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry analysis of paraffin-embedded human endometrium cancer using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

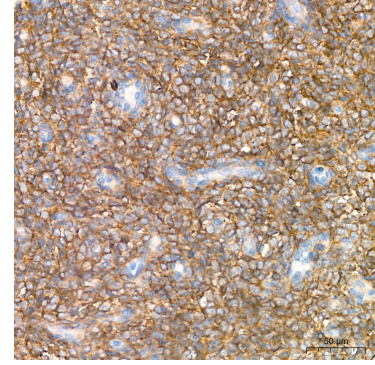
Validation Data



Immunohistochemistry analysis of paraffin-embedded human extranodal NK-T cell lymphoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human placenta using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Human endometrial stromal sarcoma using CD13/ANPEP Rabbit mAb (A21268) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.