

Rabbit anti-Human CD13/ANPEP Monoclonal Antibody | anti-ANPEP antibody

CD13/ANPEP Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28547	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

CD13/ANPEP; Monoclonal Antibody; CD13/ANPEP Rabbit mAb; APN; AP-M; AP-N; CD13; LAP1; P150; PEPN; hAPN; GP150; anti-ANPEP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	KAWNRYRLPN TLKPDSYRVT LRPYLTPNDR GLYVFKGSST VRFTCKEATD VIIHKKLN YTLSQGHRVV LRGVGGSQPP DIDKTELVEP TEYLVVHLKG SLVKDSQYEM DSEFEGELAD DLAGFYRSEY MEGNVRKVVA TTQMQAADAR KSFPCFDEPA MKAEFNITLI HPKDLTALS MLPKG PSTPL PEDPNWNVTE FHHTPKMSTY LLAFIVSEFD YVEKQASNGV LIRIWARPSA IAAGHGDYAL NVTGPILNFF AGHYDTPYPL PKSDQIGLPD FNAGAMENWG LVTYRENSLL FDPLSSSSSN KERVVTVAH ELAHQWFGNL VTIEWWNDLW LNEGFASYVE YLGADYAEPT WNLKDLMLVN DVYRVMAVDA LASSHPLSTP ASEINTPAQI SELFDAISYS KGASVLRMLS SFLSEDEVFKQ GLASYLHTFA YQNTIYNLW DHLQEAVNNR SIQLPTTVRD IMNRWTLQMG FPVITVDTST GTLSQEHFLL DPDSNVTRPS EFNYVWVPI TSIRDGRQQQ DYWLIDVRAQ NDLFSTSGNE WVLLNLNVTG YYRVNYDEEN WRKIQTQLQR DHSAPVINR AQIINDAFNL ASAHKVPVTL ALNNTLFLIE ERQYMPWEAA LSSLSYFKLM FDRSEVYGPM KNYLKKQVTP LFIHFRNNTN NWREIPENLM DQYSEVNAIS TACSNGVPEC EEMVSGLFKQ WMENPNNNPI HPNLRSTVYC NAIAQGEEEE WDFAWEQFRN ATLVNEADKL RAALACSKEL WILNRYLSYT LNPDLIRKQD ATSTIISITN NVIGQGLVWD FVQSNWKKLF NDYGGGSFSF SNLIQAVTRR FSTEYELQQL EQFKKDNEET GFGSGTRALE QALEKTKANI KWVKENKEVV LQWFTENSK
Applicable Applications for anti-ANPEP antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 1:10000-1:40000 IHC-P: 1:100-1:500 FC: 1:50-1:200 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 69-967 of human CD13/ANPEP (NP_001141.2).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



FCM (Flow Cytometry)

Flow cytometry:1X10⁶ Jurkat cells (negative control,left) and HepG2 cells (right) were surface-stained with CD13/ANPEP Rabbit mAb(AAA28547, 2.5 ug/mL,orange line) or Rabbit IgG isotype control (AC042, 10 ug/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).



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human endometrial stromal sarcoma using CD13/ANPEP Rabbit mAb (AAA28547) 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.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human placenta using CD13/ANPEP Rabbit mAb (AAA28547) 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.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human extranodal NK-T cell lymphoma using CD13/ANPEP Rabbit mAb (AAA28547) 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.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human endometrium cancer using CD13/ANPEP Rabbit mAb (AAA28547) 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.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using CD13/ANPEP Rabbit mAb (AAA28547) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-ANPEP antibody	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.
Product Categories/Family for anti-ANPEP antibody	Immunology Inflammation; CD _s ; Stem Cells; Hematopoietic Progenitors; Mesenchymal Stem Cells; Cardiovascular; Angiogenesis; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	157266300
NCBI GeneID	290
NCBI Accession #	NP_001141.2
NCBI GenBank Nucleotide #	NM_001150.2
UniProt Accession #	P15144; Q16728; Q6GT90; Q8IU3; Q8IVH3; Q9UCE0
Molecular Weight	Calculated MW: 110kDa Observed MW: 160kDa
UniProt Protein Name	Aminopeptidase N

UniProt Gene Name	ANPEP
UniProt Synonym Gene Names	APN; CD13; PEPN; AP-N; hAPN; AP-M
UniProt Entry Name	AMPN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd13-anpep-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/28547>