

Rabbit ANPEP Polyclonal Antibody | anti-ANPEP antibody

ANPEP Antibody

CATALOG # AAA327144	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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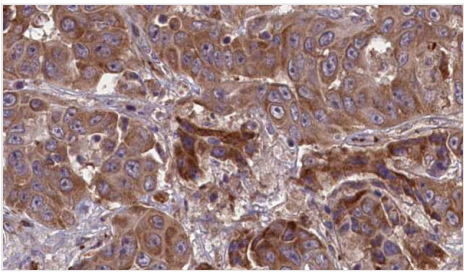
PRODUCT SYNONYMS

ANPEP; Polyclonal Antibody; ANPEP Antibody; Alanyl (membrane) aminopeptidase; Alanyl aminopeptidase; Aminopeptidase M; Aminopeptidase N; AMPN_HUMAN; AP M; AP N; AP-M; AP-N; APN; CD 13; CD13; CD13 antigen; gp150; hAPN; LAP 1; LAP1; Microsomal aminopeptidase; Myeloid plasma membrane glycoprotein CD13; p150; PEPN; anti-ANPEP antibody

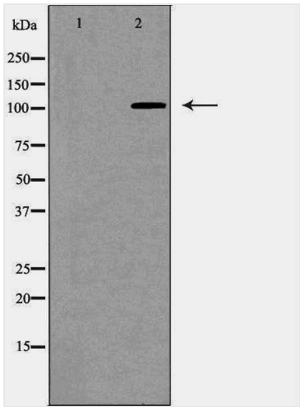
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ANPEP antibody detects endogenous levels of total ANPEP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	967
Applicable Applications for anti-ANPEP antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ANPEP
Subcellular Location	Cell Membrane. Cytoplasm > Cytosol. A soluble form has also been detected.
Tissue Specificity	Expressed in epithelial cells of the kidney, intestine, and respiratory tract; granulocytes, monocytes, fibroblasts, endothelial cells, cerebral pericytes at the blood-brain barrier, synaptic membranes of cells in the CNS. Also expressed in endometrial stromal cells, but not in the endometrial glandular cells. Found in the vasculature of tissues that undergo angiogenesis and in malignant gliomas and lymph node metastases from multiple tumor types but not in blood vessels of normal tissues. A soluble form has been found in plasma. It is found to be elevated in plasma and effusions of cancer patients.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (83%), Horse (83%), Sheep (83%), Rabbit (100%), Dog (100%), Chicken (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA327144 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hepg2 whole cell lysates, using ANPEP Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ANPEP antibody	Description: 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. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an important cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various types of leukemia or lymphoma. Function: Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. May also be involved the cleavage of peptides bound to major histocompatibility complex class II molecules of antigen presenting cells. May have a role in angiogenesis and promote cholesterol crystallization. Subunit Structure: Homodimer. Post-translational Modifications: Sulfated. N-and O-glycosylated. May undergo proteolysis and give rise to a soluble form. Similarity: Belongs to the peptidase M1 family.
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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; Q8IUK3; Q8IVH3; Q9UCE0
Molecular Weight	Observed: 109 kDa Predicted: 110 kDa
NCBI Official Full Name	aminopeptidase N
NCBI Official Synonym Full Names	alanyl aminopeptidase, membrane
NCBI Official Symbol	ANPEP
NCBI Official Synonym Symbols	APN; CD13; LAP1; P150; PEPN; GP150

NCBI Protein Information	aminopeptidase N
UniProt Protein Name	Aminopeptidase N
UniProt Gene Name	ANPEP
UniProt Synonym Gene Names	APN; CD13; PEPN; AP-N; hAPN; AP-M

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://www.aaabiotech.com/polyclonal/anpep-antibody-immunohistochemistry-western-blot-elisa/327144>