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

ANPEP/CD13 Mouse anti-Human Monoclonal (aa668-967)(2F10) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA162712	**Mouse**	**Human**	**Western Blot, Immunohistochemistry, Immunohistochemistry**

PRODUCT SYNONYMS

ANPEP/CD13; Monoclonal Antibody; ANPEP/CD13 Mouse anti-Human Monoclonal (aa668-967)(2F10) Antibody; PathPlus ANPEP/CD13 Antibody (aa668-967; clone 2F10); ANPEP; Alanyl aminopeptidase; Aminopeptidase M; APN; Aminopeptidase N; AP-N; AP-M; CD13; CD13 antigen; HAPN; gp150; p150; PEPN; Microsomal aminopeptidase; LAP1; anti-ANPEP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	2F10
Specificity	Human ANPEP/CD13
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, pH7.3, 0.02% Sodium Azide, 50% Glycerol, 1% BSA
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ANPEP antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Target	Human ANPEP/CD13
Immunogen	Human recombinant protein fragment corresponding to amino acids 668-967 of human ANPEP (NP_001141) produced in E Coli.
Conjugation	Unconjugated
Epitope	aa668-967
Family	Exopeptidase
Subfamily	Metallopeptidase M1
Preparation and Storage	Store at -20 degree C. Avoid freeze-thaw cycles.

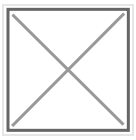
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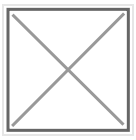
IHC (Immunohistochemistry)
ANPEP/CD13 Antibody-Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE



IHC (Immunohistochemisry)
ANPEP/CD13 Antibody-Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE



IHC (Immunohiostchemistry)
ANPEP/CD13 Antibody-Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE



WB (Western Blot)
ANPEP/CD13 Antibody-HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ANPEP (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANPEP (1:2000).

ADDITIONAL INFORMATION

Related Product Information for anti-ANPEP antibody	CD13 antibody is an unconjugated mouse monoclonal antibody to human CD13 (ANPEP)(aa668-967). Validated for IHC and WB. ANPEP (also known as CD13, AAP, AP-N, LAP1, and P150) is a broad specificity alanyl aminopeptidase involved in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. It is thought to function in the metabolism of regulatory peptides of diverse cell types, responsible for the processing of peptide hormones (angiotensin III and IV), neuropeptides, and chemokines. It is thought to play an important role in the pathogenesis of cholesterol gallstone disease. ANPEP also cleaves antigen peptides bound to major histocompatibility complex class II molecules of presenting cells and serves to degrade neurotransmitters at synaptic junctions. Is also implicated as a regulator of IL-8 bioavailability in the endometrium, and therefore may contribute to the regulation of angiogenesis. It is used as a marker for acute myeloid leukemia and plays a role in tumor invasion. It is also a useful and specific marker for mature zymogenic chief cells (ZCs) present in gastric epithelium, and expression on ZCs is lost in transition to metaplasia in the stomach. In immunohistochemistry of normal tissue, ANPEP has membranous and cytoplasmic positivity in the prostate, liver, gallbladder, exocrine pancreas, intestine and renal tubules.
References	The UniProt Consortium. Nucleic Acids Res. 47: D506-515 (2019); Nucleic Acids Res. 2016 Jan 4;44(D1):D733-45, PMID:26553804; Am J Physiol Gastrointest Liver Physiol. 2015 Dec 15; 309(12): G955 -G964, PMID: 26514774;

NCBI AND UNIPROT INFORMATION

NCBI GI #	157266300
NCBI GeneID	290
NCBI Accession #	NP_001141.2
NCBI GenBank Nucleotide #	NM_001150
UniProt Accession #	P15144; Q16728; Q6GT90; Q8IUK3; Q8IVH3; Q9UCE0
Molecular Weight	109,540 Da
NCBI Official Full Name	aminopeptidase N
NCBI Official Synonym Full Names	alanyl (membrane) aminopeptidase
NCBI Official Symbol	ANPEP
NCBI Official Synonym Symbols	APN; CD13; LAP1; P150; PEPN; GP150
NCBI Protein Information	aminopeptidase N; AP-M; AP-N; hAPN; aminopeptidase M; alanyl aminopeptidase; microsomal aminopeptidase; myeloid plasma membrane glycoprotein CD13
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.