

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

Anti-CD13 Antibody, Mouse Monoclonal

CATALOG # AAA254263	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

CD13; Monoclonal Antibody; Anti-CD13 Antibody; Mouse Monoclonal; CD13/ANPEP Antibody; Mouse MAb; alanyl (membrane) aminopeptidase; Anti-APN Antibody; Anti-GP150 Antibody; Anti-LAP1 Antibody; Anti-P150 Antibody; Anti-PEPN Antibody; anti-ANPEP antibody

PRODUCT SPECIFICATIONS

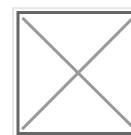
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	11
Specificity	Human CD13/ANPEP
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ANPEP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant Human CD13/ANPEP Protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD13/ANPEP (rh CD13/ANPEP). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human ANPEP in human kidney with mouse monoclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-ANPEP mouse monoclonal antibody at 1:500 dilution. Lane A: THP-1 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 110 kDa. Observed band size: 140 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ANPEP antibody	Aminopeptidase N (ANPEP or APN), also known as CD13, is a cell-surface metalloprotease located in the small-intestinal and renal microvillar membrane, as well as other plasma membranes. It belongs to the peptidase M1 family. CD13 plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases and is involved in the metabolism of regulatory peptides by diverse cell types. CD13/APN is a potent regulator of angiogenesis which is essential for tumor invasion and metastasis, and its transcription in activated endothelial cells is induced by angiogenic growth factors via the RAS/MAPK pathway. In addition, this enzyme has been shown to participate in antigen processing and presentation, and accordingly, defects in this gene appear to be a cause of various types of leukemia or lymphoma and carcinomas.
References	Pasqualini R, et al. (2000) Aminopeptidase N is a receptor for tumor-homing peptides and a target for inhibiting angiogenesis. <i>Cancer Res.</i> 60(3): 722-7. Mabjeesh SJ, et al. (2005) Aminopeptidase N gene expression and abundance in caprine mammary gland is influenced by circulating plasma peptide. <i>J Dairy Sci.</i> 88(6): 2055-64. Dunkel B, et al. (2009) Neutrophil and platelet activation in equine recurrent airway obstruction is associated with increased neutrophil CD13 expression, but not platelet CD41/61 and CD62P or neutrophil-platelet aggregate formation. <i>Vet Immunol Immunopathol.</i> 131(1-2): 25-32.

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	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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd13-antibody-clone-11-immunohistochemistry-western-blot-elisa/254263>