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ANPEP Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1999a

Product Information

Application	WB, FC, E
Primary Accession	P15144
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1C7D7
Isotype	IgG1
Calculated MW	109540 Da
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.
Immunogen	Purified recombinant fragment of human ANPEP (AA: Extra(781-967)) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Other Names	Aminopeptidase N, AP-N, hAPN, 3.4.11.2, Alanyl aminopeptidase, Aminopeptidase M, AP-M, Microsomal aminopeptidase, Myeloid plasma membrane glycoprotein CD13, gp150, CD13, ANPEP, APN, CD13, PEPN
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ANPEP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

References

1. Br J Cancer. 2013 Feb 5;108(2):420-8. 2. Ann Surg Oncol. 2012 Jul;19 Suppl 3:S539-48.

Images

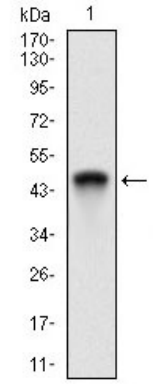

Figure 1: Western blot analysis using ANPEP mAb against human ANPEP (AA: Extra(781-967)) recombinant protein. (Expected MW is 47.4 kDa)

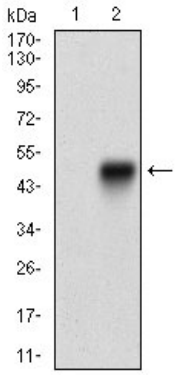

Figure 2: Western blot analysis using ANPEP mAb against HEK293 (1) and ANPEP (AA: Extra(781-967))-hIgGFc transfected HEK293 (2) cell lysate.

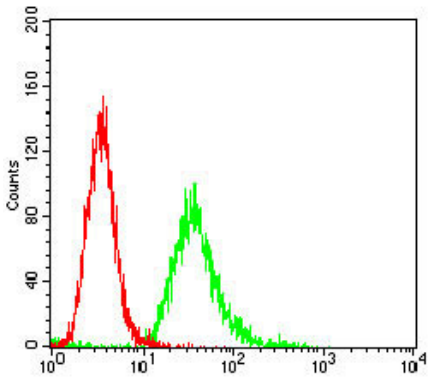

Figure 3: Flow cytometric analysis of Hela cells using ANPEP mouse mAb (green) and negative control (red).