ANPEP monoclonal antibody, clone APN/514

Catalog # MAB21029 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ANPEP.
Immunogen	Recombinant protein corresponding to human ANPEP.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells in 0.1 mL) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin-fixed) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide)
Storage Instruction	Store at 2 to 8°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunofluorescence
- Flow Cytometry

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Gene Info — ANPEP

Entrez GeneID	290
Protein Accession#	P15144
Gene Name	ANPEP
Gene Alias	APN, CD13, LAP1, PEPN, gp150, p150
Gene Description	alanyl (membrane) aminopeptidase
Omim ID	151530
Gene Ontology	Hyperlink
Gene Summary	Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in ot her 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 carboxyt erminal domain contains a pentapeptide consensus sequence characteristic of members of the zi nc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this cla ss showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be in volved in the metabolism of regulatory peptides by diverse cell types, including small intestinal an d renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CN S. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an importan t cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various t ypes of leukemia or lymphoma. [provided by RefSeq
Other Designations	OTTHUMP00000194690|aminopeptidase M|aminopeptidase N|membrane alanine aminopeptid ase|microsomal aminopeptidase

Pathway

- Glutathione metabolism
- Hematopoietic cell lineage
- Metabolic pathways
- Renin-angiotensin system

Disease

- Genetic Predisposition to Disease
- Hypertension

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- Lung Neoplasms
- Tobacco Use Disorder

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