

ANPEP monoclonal antibody, clone 22A5 (Biotin)

Catalog # MAB5509

Size 200 ug

Specification

Product Description	Mouse monoclonal antibody raised against native ANPEP.
Immunogen	Native purified ANPEP from osteoclastomas.
Host	Mouse
Reactivity	Human
Specificity	Recognizes the (Mr 150-170KDa) cell surface glycoprotein expressed in a pan-myeloid fashion. This antibody also reacts with osteoclasts in giant cell tumors of bone (osteoclastoma), clear cell chondro sarcoma and aneurysmal bone cysts. The CD13 antigen is present on most cells of myeloid origin, including granulocytes and monocytes in normal peripheral blood. CD13 is not expressed on B-cells, T-cells, platelets or erythrocytes. Expression of this antigen is greater on monocytes than on granulocytes.
Form	Liquid
Conjugation	Biotin
Isotype	IgG
Recommend Usage	Flow Cytometry (using 1ug to stain 1×10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS, 2 mM EDTA, pH 7.2 (1% BSA, 0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry

- Flow Cytometry

Gene Info — ANPEP

Entrez GeneID [290](#)

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 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. [provided by RefSeq]

Other Designations OTTHUMP00000194690|aminopeptidase M|aminopeptidase N|membrane alanine aminopeptidase|microsomal aminopeptidase

Publication Reference

- [Monoclonal antibodies to osteoclastomas \(giant cell bone tumors\): definition of osteoclast-specific cellular antigens.](#)

Horton MA, Lewis D, McNulty K, Pringle JA, Chambers TJ.

Cancer Research 1985 Nov; 45(11 Pt 2):5663.

Pathway

- [Glutathione metabolism](#)

- [Hematopoietic cell lineage](#)
- [Metabolic pathways](#)
- [Renin-angiotensin system](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Lung Neoplasms](#)
- [Tobacco Use Disorder](#)