

CD13 / ANPEP Antibody (internal region, near C-Term)
Peptide-affinity purified goat antibody
Catalog # AF4123a

Specification

CD13 / ANPEP Antibody (internal region, near C-Term) - Product Information

| | |
|-------------------|---|
| Application | WB |
| Primary Accession | P15144 |
| Other Accession | NP_001141.2 , 290 |
| Reactivity | Human |
| Host | Goat |
| Clonality | Polyclonal |
| Concentration | 0.5 mg/ml |
| Isotype | IgG |
| Calculated MW | 109540 |

CD13 / ANPEP Antibody (internal region, near C-Term) - Additional Information

Gene ID 290

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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

CD13 / ANPEP Antibody (internal region, near C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

CD13 / ANPEP Antibody (internal region, near C-Term) - Protein Information

Name ANPEP

Synonyms APN, CD13, PEPN

Function

Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. May also be involved the cleavage of peptides bound to major histocompatibility

complex class II molecules of antigen presenting cells. May have a role in angiogenesis and promote cholesterol crystallization. May have a role in amino acid transport by acting as binding partner of amino acid transporter SLC6A19 and regulating its activity (By similarity).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Note=Also found as a soluble form

Tissue Location

Expressed in epithelial cells of the kidney, intestine, and respiratory tract; granulocytes, monocytes, fibroblasts, endothelial cells, cerebral pericytes at the blood-brain barrier, synaptic membranes of cells in the CNS. Also expressed in endometrial stromal cells, but not in the endometrial glandular cells. Found in the vasculature of tissues that undergo angiogenesis and in malignant gliomas and lymph node metastases from multiple tumor types but not in blood vessels of normal tissues. A soluble form has been found in plasma. It is found to be elevated in plasma and effusions of cancer patients.

CD13 / ANPEP Antibody (internal region, near C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD13 / ANPEP Antibody (internal region, near C-Term) - Images



AF4123a (0.03 $\mu\text{g/ml}$) staining of Human Kidney lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

CD13 / ANPEP Antibody (internal region, near C-Term) - References

The X-ray crystal structure of human aminopeptidase N reveals a novel dimer and the basis for

peptide processing. Wong AH, Zhou D, Rini JM. The Journal of biological chemistry 2012 Oct 287 (44): 36804-13. PMID: 22932899