

### **CD13 Antibody**

Rabbit mAb Catalog # AP90738

# **Specification**

### **CD13 Antibody - Product Information**

Application WB, IHC, ICC, IP

Primary Accession P15144
Reactivity Rat

Clonality Monoclonal

**Other Names** 

PEPN; Aminopeptidase N; AP-N; hAPN; Alanyl aminopeptidase; Aminopeptidase M; AP-M;

Microsomal aminopeptidase; gp150; CD\_antigen=CD13; ANPEP; APN; CD13;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 109540 Da

# **CD13 Antibody - Additional Information**

Dilution WB~~1:1000

IHC~~1:100~500

ICC~~N/A IP~~N/A

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

**CD13** 

Description Aminopeptidase N (APN, CD13) is a widely

expressed, membrane-bound proteolytic enzyme that breaks down peptides during digestion, cleaves cell surface antigens during antigen presentation, and acts as a receptor for human viruses, including several coronaviruses. Plays a role in the final digestion of peptides generated from

hydrolysis of proteins by gastric and

pancreatic proteases.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

# **CD13 Antibody - 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**

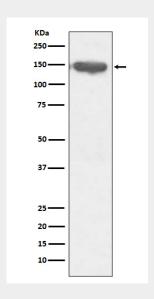
Expressed in epithelial cells of the kidney, intestine, and respiratory tract; granulocytes, monocytes, fibroblasts, endothelial cells, cerebral pericytes at the blood-brain barrier, synaptic membranes of cells in the CNS. Also expressed in endometrial stromal cells, but not in the endometrial glandular 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 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### CD13 Antibody - Images



Western blot analysis of CD13 expression in THP-1 cell lysate.