

**Anti-CD13 ANPEP Rabbit Monoclonal Antibody**  
Catalog # ABO13426**Specification****Anti-CD13 ANPEP Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IF, ICC, IP   |
| Primary Accession | <a href="#">P15144</a> |
| Host              | Rabbit                 |
| Isotype           | Rabbit IgG             |
| Reactivity        | Rat, Human, Mouse      |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-CD13 ANPEP Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-CD13 ANPEP Rabbit Monoclonal Antibody - 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

**Calculated MW**

109540 MW KDa

**Application Details**

WB 1:1000-1:2000<br>IHC 1:100-1:500<br>ICC/IF 1:100-1:500<br>IP 1:50

**Subcellular Localization**

Cell membrane; Single-pass type II membrane protein. Cytoplasm, cytosol. A soluble form has also been detected.

**Tissue Specificity**

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.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human CD13

#### **Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

### **Anti-CD13 ANPEP Rabbit Monoclonal 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**

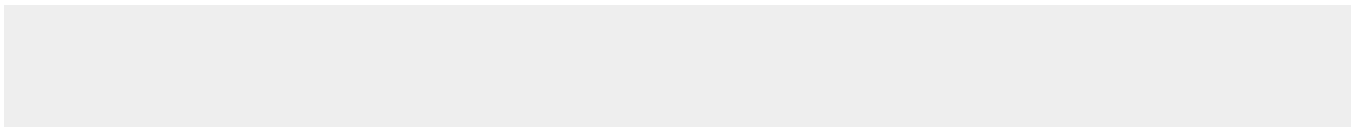
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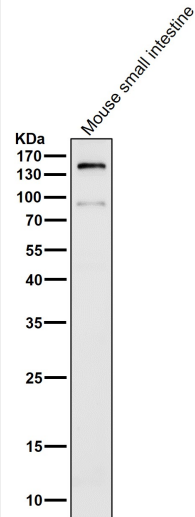
### **Anti-CD13 ANPEP Rabbit Monoclonal Antibody - Protocols**

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

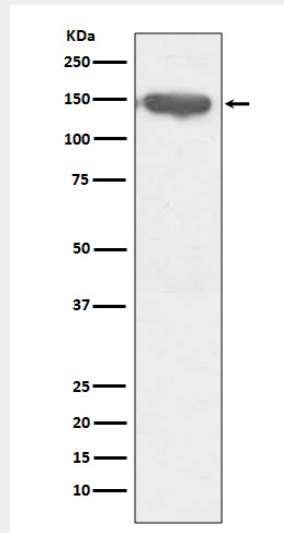
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-CD13 ANPEP Rabbit Monoclonal Antibody - Images**

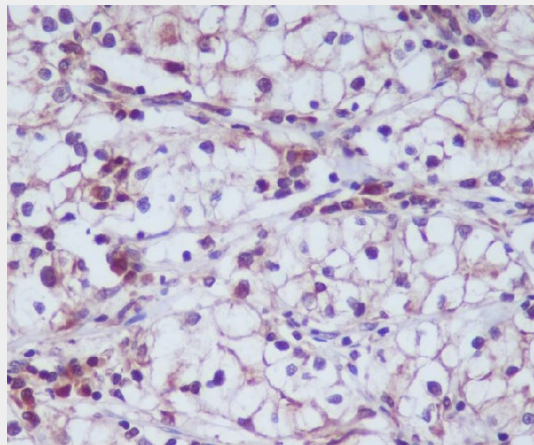




All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



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



Immunohistochemical analysis of paraffin-embedded human kidney, using CD13 Antibody.