

**ANPEP / CD13 Antibody (aa880-930)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16923**

**Specification**

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**ANPEP / CD13 Antibody (aa880-930) - Product Information**

Application	<b>IHC, WB</b>
Primary Accession	<a href="#">P15144</a>
Other Accession	<a href="#">290</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>109540</b>

**ANPEP / CD13 Antibody (aa880-930) - Additional Information**

**Gene ID** 290

**Other Names**

ANPEP, Alanyl aminopeptidase, Aminopeptidase M, APN, Aminopeptidase N, AP-N, AP-M, CD13, CD13 antigen, HAPN, gp150, p150, PEPN, Microsomal aminopeptidase, LAP1

**Target/Specificity**

Human CD13

**Reconstitution & Storage**

PBS, pH 7.2, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Precautions**

ANPEP / CD13 Antibody (aa880-930) is for research use only and not for use in diagnostic or therapeutic procedures.

**ANPEP / CD13 Antibody (aa880-930) - 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.

### Volume

50  $\mu$ l

### ANPEP / CD13 Antibody (aa880-930) - Protocols

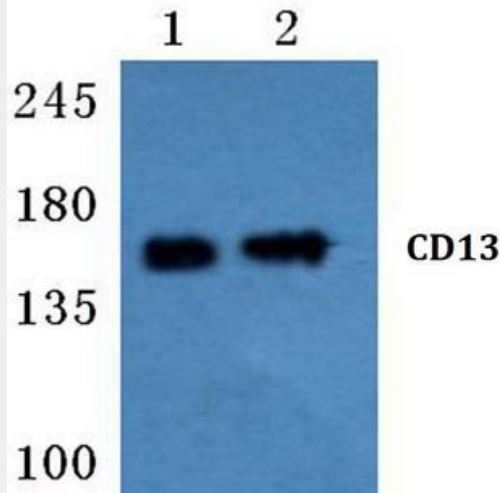
Provided below are standard protocols that you may find useful for product applications.

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

### ANPEP / CD13 Antibody (aa880-930) - Images



Anti-ANPEP / CD13 antibody IHC staining of human kidney.



Western blot analysis of CD13 antibody at a dilution of 1:500.

#### **ANPEP / CD13 Antibody (aa880-930) - Background**

Broad specificity aminopeptidase. Plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. May play a critical role in the pathogenesis of cholesterol gallstone disease. May be involved in the metabolism of regulatory peptides of diverse cell types, responsible for the processing of peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. Found to cleave antigen peptides bound to major histocompatibility complex class II molecules of presenting cells and to degrade neurotransmitters at synaptic junctions. Is also implicated as a regulator of IL-8 bioavailability in the endometrium, and therefore may contribute to the regulation of angiogenesis. Is used as a marker for acute myeloid leukemia and plays a role in tumor invasion. In case of human coronavirus 229E (HCoV-229E) infection, serves as receptor for HCoV-229E spike glycoprotein. Mediates as well human cytomegalovirus (HCMV) infection.

#### **ANPEP / CD13 Antibody (aa880-930) - References**

Olsen J., et al. FEBS Lett. 238:307-314(1988).  
Look A.T., et al. J. Clin. Invest. 83:1299-1307(1989).  
Zody M.C., et al. Nature 440:671-675(2006).  
Shapiro L.H., et al. J. Biol. Chem. 266:11999-12007(1991).  
Eiz-Vesper B., et al. Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.