

# ANPEP 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00000290-T02 Size 100 uL

## Applications



### SDS-PAGE Gel

ANPEP transfected lysate.

#### Western Blot

Lane 1: ANPEP transfected lysate (109.50 KDa) Lane 2: Non-transfected lysate.

| Specification                    |                        |
|----------------------------------|------------------------|
| Transfected Cell Line            | 293T                   |
| Plasmid                          | pCMV-ANPEP full-length |
| Host                             | Human                  |
| Theoretical MW (kDa)             | 109.5                  |
| Interspecies Antigen<br>Sequence | Mouse (76); Rat (78)   |



## **Product Information**

| Quality Control Testing | Transient overexpression cell lysate was tested with Anti-ANPEP antibody (H00000290-D01P) by W<br>estern Blots.<br>SDS-PAGE Gel<br>ANPEP transfected lysate.<br>Western Blot<br>Lane 1: ANPEP transfected lysate (109.50 KDa)<br>Lane 2: Non-transfected lysate. |
|-------------------------|--|
| Storage Buffer          | 1X Sample Buffer (50 mM Tris-HCI, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bro mophenol blue)   |
| Storage Instruction     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.  |

## Applications

• Western Blot

# Gene Info — ANPEP

| Entrez GenelD       | <u>290</u>                         |
|---------------------|------------------------------------|
| GeneBank Accession# | <u>NM_001150.1</u>                 |
| Protein Accession#  | <u>NP_001141.1</u>                 |
| Gene Name           | ANPEP                              |
| Gene Alias          | APN, CD13, LAP1, PEPN, gp150, p150 |
| Gene Description    | alanyl (membrane) aminopeptidase   |
| Omim ID             | <u>151530</u>                      |
| Gene Ontology       | <u>Hyperlink</u>                   |



**Gene Summary** 

### **Product Information**

Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in ot her 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 carboxyt erminal domain contains a pentapeptide consensus sequence characteristic of members of the zi nc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this cla ss showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be in volved in the metabolism of regulatory peptides by diverse cell types, including small intestinal an d renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CN S. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an importan t cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various t ypes of leukemia or lymphoma. [provided by RefSeq

**Other Designations** 

OTTHUMP00000194690|aminopeptidase M|aminopeptidase N|membrane alanine aminopeptid ase|microsomal aminopeptidase

### Pathway

- <u>Glutathione metabolism</u>
- Hematopoietic cell lineage
- Metabolic pathways
- <u>Renin-angiotensin system</u>

#### Disease

- Genetic Predisposition to Disease
- Hypertension
- Lung Neoplasms
- <u>Tobacco Use Disorder</u>