

## Human CD13,Aminopeptidase N ELISA Kit

Catalog No: #EK5534



Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

|                     |   |
|---------------------|---|
| Product Name        | Human CD13,Aminopeptidase N ELISA Kit   |
| Specificity         | Human   |
| Crossing Reactivity | There is no detectable cross-reactivity with other relevant proteins.   |
| Immunogen Type      | NSO,K69-K967  |
| 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; |
| Accession No.       | P15144  |
| Uniprot             | P15144  |
| GeneID              | 290;  |
| Cell Localization   | Cell membrane; A soluble form hasalso been detected.  |

## Application Details

sensitivity:10pg mlDetect Range:312pg ml-20 000pg ml  
sample\_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA).capture\_antibody:monoclonal antibody from mousedetection\_antibody:polyclonal antibody from goatgene\_name:ANPEPprotein\_name:Aminopeptidase N  
gene\_full\_name:Aminopeptidase Ntissue\_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. Alsoexpressed in endometrial stromal cells but not in the endometrialglandular cells. Found in the vasculature of tissues that undergoangiogenesis and in malignant gliomas and lymph node metastasesfrom multiple tumor types but not in blood vessels of normaltissues. A soluble form has been found in plasma. It is found tobe elevated in plasma and effusions of cancer patients.sequence\_similarities:tmb\_incubation:20-25minresearch\_category:immunology|cell type markers|cd|myeloid cells|stem cells|mesenchymal stem cells|surface molecules|hematopoietic progenitors|lymphoid|b lymphocytic lineage|myeloid|dendritic cell lineage|monocytic lineage

## Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD13,Aminopeptidase N

## Background

protein\_function: Broad specificity aminopeptidase. Plays a role in thefinal digestion of peptides generated from hydrolysis of proteinsby gastric and pancreatic proteases. May play a critical role inthe pathogenesis of cholesterol gallstone disease. May be involvedin the metabolism of regulatory peptides of diverse cell types,responsible for the processing of peptide hormones, such asangiotensin III and IV, neuropeptides, and chemokines. Found tocleave antigen peptides bound to major histocompatibility complexclass II molecules of presenting cells and to degradeneurotransmitters at synaptic junctions. Is also implicated as aregulator of IL-8 bioavailability in the endometrium, andtherefore may contribute to the regulation of angiogenesis. Isused as a marker for acute myeloid leukemia and plays a role intumor 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..Alanine aminopeptidase, also known as ANPEP or CD13. is an enzyme that is used as a biomarker to detect damage to the kidneys, and that may be used to help diagnose certain kidney disorders. It is mapped to 15q26.1. Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other 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, and it is also thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Petrovic et al showed that CD13 was required for endothelial cell invasion in response to bradykinin. Inhibition of CD13 abrogated internalization of bradykinin receptor B2 and reduced endothelial cell motility.

---

Note: This product is for in vitro research use only