

## CD13 (PN0045) Nb-FC recombinant antibody

CatalogNo: YA0128 **Recombinant** 

### Key Features

#### Reactivity

- Human

#### Applications

- ELISA,FC

### Recommended Dilution Ratios

ELISA 1:5000-100000

### Storage

**Storage\*** -15°C to -25°C/1 year(Avoid freeze / thaw cycles)

**Formulation** Phosphate-buffered solution

### Basic Information

**Source** Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell

**Purification** Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell

**Clone Number** PN0045

### Immunogen Information

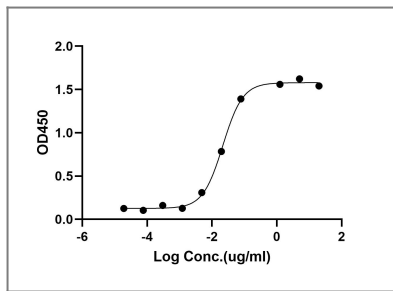
**Immunogen** Purified recombinant Human CD13

**Specificity** This recombinant monoclonal antibody can detects endogenous levels of CD13 protein.

### Target Information

<b>Gene name</b>	ANPEP APN CD13 PEPN		
<b>Protein Name</b>	Aminopeptidase N (AP-N) (hAPN) (Alanyl aminopeptidase) (Aminopeptidase M) (AP-M) (Microsomal aminopeptidase) (Myeloid plasma membrane glycoprotein CD13) (gp150) (CD antigen CD13)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">214;</a>	<a href="#">P15144;</a>
<b>Cellular Localization</b>	Cell membrane ; Single-pass type II membrane protein . Also found as a soluble form. .		
<b>Tissue specificity</b>	Detected on hematopoietic stem cells derived from umbilical cord blood (PubMed:2474813). Detected on lymph vessel endothelial cells, skin and tonsil (PubMed:23169771). Detected on peripheral blood monocytes (PubMed:154873). Detected on monocyte-derived dendritic cells (at protein level) (PubMed:1635286). Detected at low levels in spleen, placenta, liver (PubMed:952422). Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells (PubMed:7767). Isoform 1 and isoform 3 are detected in vein and artery endothelial cells, astrocytes, keratinocytes and artery smooth muscle cells (PubMed:15496415). Expressed by neurons in the brain. Restricted expression in tumor cell lines. Detected in highly metastasizing melanoma cell lines (PubMed:952422).		
<b>Function</b>	<p>Catalytic activity:Release of an N-terminal amino acid, Xaa-[Yaa- from a peptide, amide or arylamide. Xaa is preferably Ala, but may be most amino acids including Pro (slow action). When a terminal hydrophobic residue is followed by a prolyl residue, the two may be released as an intact Xaa-Pro dipeptide.,cofactor:Binds 1 zinc ion per subunit.,Disease:Defects in ANPEP may be a cause of various types of leukemia or lymphoma.,Domain:Amino acids 260-353 are essential to mediate susceptibility to infection with HCoV-229E (in porcine/human chimeric studies) and more specifically amino acids 288-295 (mutagenesis studies).,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 including small intestinal and tubular epithelial cells, macrophages, granulocytes and synaptic membranes from the CNS. 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.,induction:Estradiol and IL-8 decrease enzymatic activity in vitro in endometrial stromal cells by 40% and 30%, respectively.,miscellaneous:Found to serve as a receptor for tumor-homing peptides, more specifically NGR peptides. It could serve thus as a target for delivering drugs into tumors. Concentration in human hepatic bile, varies from 17.3 to 57.6 micrograms/ml.,PTM:May undergo proteolysis and give rise to a soluble form.,PTM:N- and O-glycosylated.,PTM:Sulfated.,similarity:Belongs to the peptidase M1 family.,subcellular location:A soluble form has also been detected.,subunit:Homodimer. Interacts with the S1 domain of HCoV-229E spike protein.,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.,</p>		

## Validation Data



## Contact information

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Please scan the QR code to access additional product information:  
**CD13 (PN0045) Nb-FC recombinant antibody**

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