

Rabbit Anti-CD13 antibody

SL1383R

Product Name:	CD13
Chinese Name:	CD13氨肽酶N抗体
Alias:	ANPEN; Aminopeptidase N; Alanyl aminopeptidase; Alanyl membrane aminopeptidase; Aminopeptidase M; Aminopeptidase N; ANPEP; APN; CD 13; CD13 antigen; gp150; hAPN; Lap 1; Lap1; Alanyl (membrane) aminopeptidase; AMPN_HUMAN; AP M; AP N; AP-M; AP-N; CD13; LAP 1; LAP1; PEPN; Microsomal aminopeptidase; Myeloid plasma membrane glycoprotein CD13; p150.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	109kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CD13:344- 444/444 <cytoplasmic></cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. Expressed in epithelial cells. Belongs to the peptidase M1 family.

Function:

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.

Subunit:

Homodimer. Interacts with the S1 domain of HCoV-229E spike protein.

Subcellular Location:

Cell membrane; Single-pass type II membrane protein. Cytoplasm, cytosol (Potential). Note=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.

Post-translational modifications: Sulfated. N- and O-glycosylated. May undergo proteolysis and give rise to a soluble form.

Similarity: Belongs to the peptidase M1 family. SWISS: P15144 Gene ID: 290 Database links: joiotech.com Entrez Gene: 290Human Entrez Gene: 16790Mouse Entrez Gene: 81641Rat Omim: 151530Human SwissProt: P15144Human SwissProt: P97449Mouse SwissProt: P15684Rat Unigene: 1239Human Unigene: 4487Mouse Unigene: 11132Rat Unigene: 179371Rat **Important** Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 氨肽酶N(又称CD13)是氨肽酶系列的一种,氨肽酶是从蛋白质多肽链氨基端催化降 解氨基酸残基的水解蛋白酶。是多种冠状病毒的受体,目前在Tumour侵袭、转移、 免疫调节和病毒感染等多方面受人们的关注。它在Tumour细胞表面高水平表达,对T

umour细胞外基底膜起到降解作用引发Tumour的侵袭和转移。主要分布于小肠和肾

脏, 巨噬细胞、粒细胞和中枢神经系统的突触膜也表达CD13.





Black line : Positive blank control U937); Negative blank control (A431)
Green line : Primary Antibody (Rabbit Anti- CD13 antibody (SL1383R))
Orange line : Isotype Control Antibody (Rabbit IgG) .
Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF647)
U937 (Positive) and A431 Negative control) cells (black) were incubated in 5% BSA
blocking buffer for 30 min at room temperature. Cells were then stained with CD13
Antibody(SL1383R)at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary
antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000
events were performed. Cells stained with primary antibody (green), and isotype
control (orange).



Blank control: U937 (blue).

Primary Antibody:Rabbit Anti- CD13 antibody(SL1383R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

NNN.

The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL1383R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.