CD13 (PTF0055) Mouse mAb

CatalogNo: YF0042 Recombinant

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- FC,IF

Isotype
- Mouse IgG1/Kappa

Storage

Storage*	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
Formulation	PBS, pH 7.4

Recommended Dilution Ratios

IF 1:200-1:1000
FC:1 µg per million cells in 100 µl volume. For optimal results, the reagent should be titrated according to each specific application

Basic Information

Clonality	Monoclonal
Clone Number	PTF0055

Immunogen Information

Specificity	Endogenous

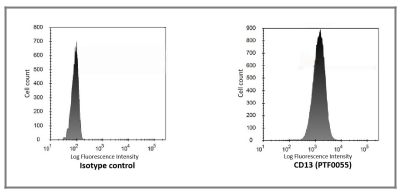
Target Information

Gene name	ANPEP APN CD13 PEPN
Protein Name	Aminopeptidase N

Organism	Gene ID	UniProt ID
Human	290;	P15144;

Cellular Localization	Cell membrane ; Single-pass type II membrane protein . Also found as a soluble form. .
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.
Function	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.,

Validation Data



Human peripheral blood granulocytes stained with Mouse IgG1, κ isotype control or purified CD13 (PTF0055) , followed by anti-mouse IgGs-PE

Contact information

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Please scan the QR code to access additional product information:
CD13 (PTF0055) Mouse mAb