

Recombinant Mouse CD13 protein (His tag) ab276741

1 Image

Description

Product name	Recombinant Mouse CD13 protein (His tag)		
Purity	> 97 % SDS-PAGE.		
Endotoxin level	< 1.000 Eu/µg		
Expression system	HEK 293 cells		
Accession	<u>P97449</u>		
Protein length	Protein fragment		
Animal free	No		
Nature	Recombinant		
Species	Mouse		
Sequence	DESKPWNQYR LPKTLIPDSY RVILRPYLTP NNQGLYIFQG NSTVRFTCNQ TTDVIIIHSK KLNyTLKGnH RVVLRtLDGT PAPNIDKTEL VERTEYLVVH LQGS LVEGRQ YEMDSQFQGE LADDLAGFYR SEYMEGDVKK VVATTQMCAA DARKSFPCFD EPAMKAMFNI TLIYPNNLIA LSNMLPKESK PYPEDPSC TM TEFHSTPKMS TYLLAYVSE FKNISSVSAN GVQIGWARP SAIDEGQGDY ALNVTGPILN FFAQHYNTSY PLPKSDQIAL PDFNAGAMEN WGLVTYRESS LVFDSQSSSI SNKERVVTVI AHELAHQWFG NLVTVAWWND LWLNEGFASY VEYLGADYAE PTWNLKDL MV LNDVYRVM AV DALASSHPLS SPADEIKTPD QIMELFDSIT YSKGASVIRM LSSFLTEDLF KKGLSSYLHT YQYSNTVYLD LWEHLQKAVN QQTAVQPPAT VRTIMDRWIL QM GFPVITVN TNTGEISQKH FLLDSKSNVT RPSEFNYWI APIPFLKSGQ EDHYWLDVEK NQSAKFQTSS NEWILLNINV TGYLVNYDE NNWKKLQNL QTDLSVIPVI NRAQIIHDSF NLASAKMIPI TLALDNTLFL VKEAEYMPWQ AALSSLNYFT LMFDRSEVYG PMKRYLKKQV TPLFFYFQNR TNNWVNRPPT LMEQYNEINA ISTACSSGLK ECRDLVVELY SQWMKNPNNN TIHPNLRSTV YCNAIAFGGE EEWNFAWEQF RNATLVNEAD KLRSALACSK DVWILNRYLS YTLNPDYRK QDTTSTIISI ASNVAGHPLV WDFVRSNWKK LFENYGGGSF		

SFANLIQGVT RRFSSSEFELQ QLEQFKADNS
ATGFGTGTRA LEQALEKTRA NIDWVKENKD
AVFKWFTENS S

Predicted molecular weight	104 kDa including tags
Molecular weight information	The recombinant mouse ANPEP consists of 909 amino acids and has a calculated molecular mass of 104 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 120-130 kDa protein in SDS-PAGE under reducing conditions.
Amino acids	66 to 966
Tags	His tag C-Terminus
Additional sequence information	Predicted N-terminus: Lys 66.

Specifications

Our **Abpromise guarantee** covers the use of **ab276741** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at Room Temperature. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituent: 100% PBS
Reconstitution	This information is lot specific. Please contact our technical Support team for details.

General Info

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 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.
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.

Sequence similarities	Belongs to the peptidase M1 family.
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).
Post-translational modifications	Sulfated. N- and O-glycosylated. May undergo proteolysis and give rise to a soluble form.
Cellular localization	Cell membrane. Cytoplasm > cytosol. A soluble form has also been detected.

Images



SDS-PAGE analysis of ab276741

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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