

Product Information

MemDX™ Membrane Protein Human ANPEP (Alanyl aminopeptidase, membrane) for

Antibody Discovery

Cat. No.: **MP1252J**

This product is for research use only and is not intended for diagnostic use.

This product is a 106.3 kDa Human ANPEP membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ANPEP

Protein Length

Full-length

Protein Class

Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane

Molecular Weight

106.3 kDa

TMD

1

Sequence

MAKGFYISKSLGILGILLGVAAVCTIIALSVVYSQEKKNANSSPVASTTPSASATTNPASATTLTDQSKA
WNRYYRLPNTLKPDSYQVTLRPYLTPNDRGLYVFKGSSTVRFTCKEATDVIIIHSKKNLYTSLQGHRVVL
GVGGSQPPDIDKTELVEPTEYLVVHLKGSVKDSQYEMDSEFEGELADLAGFYRSEYMEGNVRKVVATT
QMQAADARKSFPCFDEPAMKAEFNITLIHPKDLTALSNMLPKGPKSTPLPEDPNWNVTEFHTTPKMSTYLL
AFIVSEFDYVEKQASNGVLIRIWARPSAIAAGHGDYALNVTGPILNFFAGHYDTPYPLPKSDQIGLPDFN
AGAMENWGLVTYRENSLLFDPLSSSSSNKERVVTVIAHELAHQWFGNLVTIEWWNLDLWLNNEGFAASYVEYL
GADYAEPTWNLKDLMLVNDVYRVMAVDALASSHPLSTPASEINTPAQISELFDAYSYSKGASVLRMLSSF
LSEDFVKQGLASYLHTFAYQNTIYLNLDHDLQEAVNNRSIQLPTTVRDIMNRWTLQMGFPVITVDTSTGT
LSQEHFLDPDSNVTRPSEFNYYVWVPITSIRDGRQQQDYWLIDVRAQNDFSTSGNEWVLLNLNVTGY
RVNYDEENWRKIQTQLQRDHSAPVINRAQIINDAFNLASAHKVPVTLALNNTLFLIEERQYMPWEAALS
SLSYFKLMFDRSEVYGPMMKNYLKKQVTPLFIHFRNNTNNWREIPENLMDQYSEVNAISTACSNVPECEE
MVSGLFKQWMENPNNNPIHPNLRSTVYCNAIAQGGEEDWFAWEQFRNATLVNEADKLRAALACSKELWI
LNRYSYTLNPDILRKQDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFSSNLIQAVTRRFS
TEYELQQLEQFKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENSK

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

ANPEP

Full Name

Alanyl aminopeptidase, membrane

Introduction

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. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was 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. This membrane-bound zinc metalloprotease is known to serve as a receptor for the HCoV-229E alphacoronavirus as well as other non-human coronaviruses. This gene has also been shown to promote angiogenesis, tumor growth, and metastasis and defects in this gene are associated with various types of leukemia and lymphoma.

Alternative Names

APN; CD13; LAP1; P150; PEPN; GP150; AP-M; AP-N; alanyl (membrane) aminopeptidase; aminopeptidase M; hAPN; membrane alanyl aminopeptidase; microsomal aminopeptidase; myeloid plasma membrane glycoprotein CD13

Gene ID

[290](#)

UniProt ID

[P15144](#)