

Product datasheet for PH308950

OriGene Technologies, Inc.

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CD13 (ANPEP) (NM 001150) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

ANPEP MS Standard C13 and N15-labeled recombinant protein (NP_001141) **Description:**

Species: Human **HEK293 Expression Host:**

Expression cDNA Clone

RC208950

or AA Sequence:

Protein Sequence:

109.51 kDa

Predicted MW:

>RC208950 representing NM_001150 Red=Cloning site Green=Tags(s)

MAKGFYISKSLGILGILLGVAAVCTIIALSVVYSQEKNKNANSSPVASTTPSASATTNPASATTLDQSKA WNRYRLPNTLKPDSYQVTLRPYLTPNDRGLYVFKGSSTVRFTCKEATDVIIIHSKKLNYTLSQGHRVVLR GVGGSQPPDIDKTELVEPTEYLVVHLKGSLVKDSQYEMDSEFEGELADDLAGFYRSEYMEGNVRKVVATT QMQAADARKSFPCFDEPAMKAEFNITLIHPKDLTALSNMLPKGPSTPLPEDPNWNVTEFHTTPKMSTYLL AFIVSEFDYVEKQASNGVLIRIWARPSAIAAGHGDYALNVTGPILNFFAGHYDTPYPLPKSDQIGLPDFN AGAMENWGLVTYRENSLLFDPLSSSSSNKERVVTVIAHELAHQWFGNLVTIEWWNDLWLNEGFASYVEYL GADYAEPTWNLKDLMVLNDVYRVMAVDALASSHPLSTPASEINTPAQISELFDAISYSKGASVLRMLSSF LSEDVFKQGLASYLHTFAYQNTIYLNLWDHLQEAVNNRSIQLPTTVRDIMNRWTLQMGFPVITVDTSTGT LSQEHFLLDPDSNVTRPSEFNYVWIVPITSIRDGRQQQDYWLIDVRAQNDLFSTSGNEWVLLNLNVTGYY RVNYDEENWRKIQTQLQRDHSAIPVINRAQIINDAFNLASAHKVPVTLALNNTLFLIEERQYMPWEAALS SLSYFKLMFDRSEVYGPMKNYLKKQVTPLFIHFRNNTNNWREIPENLMDQYSEVNAISTACSNGVPECEE MVSGLFKQWMENPNNNPIHPNLRSTVYCNAIAQGGEEEWDFAWEQFRNATLVNEADKLRAALACSKELWI LNRYLSYTLNPDLIRKQDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFSFSNLIQAVTRRFS TEYELQQLEQFKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENSK

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

C-Myc/DDK Tag:

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

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Store at -80°C. Avoid repeated freeze-thaw cycles. Storage:

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.





RefSeq: <u>NP 001141</u>

RefSeq Size: 3494 RefSeq ORF: 2901

Synonyms: APN; CD13; GP150; LAP1; P150; PEPN

Locus ID: 290

UniProt ID: <u>P15144, A0A024RC61, Q59E93</u>

Cytogenetics: 15q26.1

Summary: 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

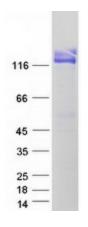
various types of leukemia and lymphoma. [provided by RefSeq, Apr 2020]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane

Protein Pathways: Glutathione metabolism, Hematopoietic cell lineage, Metabolic pathways, Renin-angiotensin

system

Product images:



Coomassie blue staining of purified ANPEP protein (Cat# [TP308950]). The protein was produced from HEK293T cells transfected with ANPEP cDNA clone (Cat# [RC208950]) using MegaTran 2.0 (Cat# [TT210002]).