

## Product datasheet for TP308950

### CD13 (ANPEP) (NM\_001150) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens alanyl (membrane) aminopeptidase (ANPEP), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208950 representing NM_001150 Red=Cloning site Green=Tags(s)

MAKGFYISKSLGILGILLGVAAVCTIIALSWVYSQEKNKNANSSPVASTTPSASATTNPASATTLTLDQSKA  
WNRYLRLPNTLKPDSYQVTLRPLYLTPNDRGLYVFKGSSTVRFTCKEATDVIIHSHKLNLYLSQGHVRLR  
GVGGSQPPDIDKTELVEPTEYLVHLLKGLSLVKDSQYEMDSEFEGELADLAGFYRSEYMEGNVRKVVATT  
QMQAADARKSFPDFEAMKAEFNITLIHPKDLTALSMLPKGPSTPLPEDPNWNVTEFHHTPKMSTYLL  
AFIVSEFDYVEKQASNGVLIRIWARPSAIAAGHGDYALNVTGPILNFFAGHYDTPYPLPKSDQIGLPDFN  
AGAMENWGLVTYRENSLLFDPLSSSSSNKERVVTVIAHELAHQWFGNLVTIEWWDLWLNEGFASYVEYL  
GADYAEPTWNLKDLMLVNDVYRVMAYDALASSHPLSTPASEINTPAQISELFDAYSISKSGASVLRMLSSF  
LSEDFVKQGLASYLHTFAYQNTIYLNLDHDLQEAVERNRSIQLPTTVRDIMNRWTLQMGFPVITVDTSTGT  
LSQEHLLDPDSNVTRPSEFNYYWVWPITSIRDGRQQDYWLIDVRAQNDLFDSTSGNEWLLNLNVTGY  
RVNYDEENWRKIQTQLQRDHSAPVINRAQIINDAFNLASAHKVPVTLALNNTLFLIEERQYMPWEAALS  
SLSYFKLMFDRSEVYGPMKNYLKQVTPLEFIHFRNNTNNWREIPENLMDQYSEVNAISTACSNVPECEE  
MVSGLFKQWMENPNNNPIHPNLRSTVYCNAIAQGGEEDWFAWEQFRNATLVNEADKLRALACSKELWI  
LNRYSYTLNPDLRKQDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFNFNLIAVTRRFS  
TEYELQLEQFKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENSK

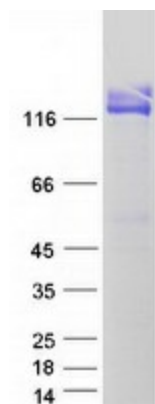
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	106.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_001141</u>
<b>Locus ID:</b>	290
<b>UniProt ID:</b>	<u>P15144</u>
<b>RefSeq Size:</b>	3494
<b>Cytogenetics:</b>	15q26.1
<b>RefSeq ORF:</b>	2901
<b>Synonyms:</b>	APN; CD13; GP150; LAP1; P150; PEPN
<b>Summary:</b>	<p>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]</p>
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
<b>Protein Pathways:</b>	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]).