

Human ANPEP Knockdown Cell Lysate

Cat. No. ANPEP-036HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview WB-validated ANPEP Knockdown HeLa Cell Lysate

Species Human

Source HeLa

Description

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.

Form Cell-Tissue Lysis buffer

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Molecular Mass	110 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ANPEP KD HeLa cell lysate
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
Protein Pathways	Glutathione metabolism, Hematopoietic cell lineage, Metabolic pathways, Renin-angiotensin system
Lysate QC	RT-qPCR; Western Blotting (WB)
GENE INFORMATION	
Gene Name	ANPEP alanyl (membrane) aminopeptidase [Homo sapiens (human)]
Official Symbol	ANPEP
Synonyms	ANPEP; alanyl (membrane) aminopeptidase; CD13, PEPN; aminopeptidase N; aminopeptidase M; gp150; LAP1; microsomal aminopeptidase; p150; AP-M; AP-N; hAPN; alanyl aminopeptidase; myeloid plasma membrane glycoprotein CD13; APN;

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CD13; P150; PEPN; GP150;

Gene ID

290

mRNA Refseq

NM_001150

Protein Refseq


NP_001141

MIM

151530

UniProt ID

P15144

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