

Recombinant Full Length Human APEH Protein, GST-tagged

Cat. No. APEH-1108HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human APEH full-length ORF (NP_001631.3, 1 a.a. - 732 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	732 amino acids
Description	This gene encodes the enzyme acylpeptide hydrolase, which catalyzes the hydrolysis of the terminal acetylated amino acid preferentially from small acetylated peptides. The acetyl amino acid formed by this hydrolase is further processed to acetate and a free amino acid by an aminoacylase. This gene is located within the same region of chromosome 3 (3p21) as the aminoacylase gene, and deletions at this locus are also associated with a decrease in aminoacylase activity. The acylpeptide hydrolase is a homotetrameric protein of 300 kDa with each subunit consisting of 732 amino acid residues. It can play an important role in destroying oxidatively damaged proteins in living cells. Deletions of this gene locus are found in various types of carcinomas, including small cell lung carcinoma and renal cell carcinoma. [provided by RefSeq, Jul 2008]
Molecular Mass	107.6 kDa
AA Sequence	MERQVLLSEP EEAAALYRGL SRQPALSAAC LGPEVTTQYG GQYRTVHTEW TQRDLERMEN IRFCRQYLVF HDGDSVVFAG PAGNSVETRG ELLSRESPSG

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TMKAVLRKAG GTGPGEEKQF LEVWEKNRKL KSFNLSALEK HGPVYEDDCF
 GCLSWSHSET HLLYVAEKKR PKAESFFQTK ALDVSASDDE IARLKKPDQA
 IKGDQFVFYE DWGENMVSKS IPVLCVLDVE SGNISVLEGV PENVSPGQAF
 WAPGDAGVVF VGWWHEPFRL GIRFCTNRRS ALYYVDLIGG KCELLSDDSL
 AVSSPRLSPD QCRIVYLQYP SLIPHHQCSQ LCLYDWYTKV TSVVVDVVR
 QLGENFSGIY CSLLPLGCWS ADSQRVVFDS AQRSRQDLFA VDTQVGTVTS
 LTAGGSGGSW KLLTIDQDLM VAQFSTPSLP PTLKVGFLPS AGKEQSVLWV
 SLEEAEPIDP IHWGIRVLQP PPEQENVQYA GLDFEAILLQ PGSPDPKTQV
 PMVVMPHGGP HSSFVTAWML FPAMLCCKMGF AVLLVNYRGS TGFGQDSILS
 LPGNVGHQDV KDVQFAVEQV LQEEHFDASH VALMGGSHGG FISCHLIGQY
 PETYRACVAR NPVINIASML GSTDIPDWCV VEAGFPFSSD CLPDLSVWAE
 MLDKSPIRYI PQVKTPLLM LGQEDRRVPF KQGMYYRAL KTRNVPVRL
 LYPKSTHALS EVEVESDSFM NAVLWLRTHL GS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[APEH N-acylaminoacyl-peptide hydrolase \[Homo sapiens \]](#)

Official Symbol

[APEH](#)

Synonyms

APEH; N-acylaminoacyl-peptide hydrolase; D3F15S2, D3S48E, DNF15S2;
 acylamino-acid-releasing enzyme; acyl-peptide hydrolase; acylaminoacyl-peptidase;
 oxidized protein hydrolase; APH; OPH; AARE; ACPH; D3S48E; D3F15S2; DNF15S2;

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MGC2178	
Gene ID	327
mRNA Refseq	NM_001640
Protein Refseq	NP_001631
MIM	102645
UniProt ID	P13798

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