

Recombinant Full Length Human APLP2 Protein, GST-tagged

Cat. No. APLP2-1110HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human APLP2 full-length ORF (AAH04371.1, 1 a.a. - 522 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	522 amino acids
Description	This gene encodes amyloid precursor- like protein 2 (APLP2), which is a member of the APP (amyloid precursor protein) family including APP, APLP1 and APLP2. This protein is ubiquitously expressed. It contains heparin-, copper- and zinc- binding domains at the N-terminus, BPTI/Kunitz inhibitor and E2 domains in the middle region, and transmembrane and intracellular domains at the C-terminus. This protein interacts with major histocompatibility complex (MHC) class I molecules. The synergy of this protein and the APP is required to mediate neuromuscular transmission, spatial learning and synaptic plasticity. This protein has been implicated in the pathogenesis of Alzheimer's disease. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Molecular Mass	85.6 kDa
AA Sequence	MAATGTAAAA ATGRLLLLLL VGLTAPALAL AGYIEALAN AGTGFAVAEP QIAMFCGKLN MHVNIQTGKW EPDPTGTKSC FETKEEVLQY CQEMYPELQI TNVMEANQRV SIDNWCRRDK KQCKSRFVTP FKCLVPPTPL PTNDVDVYFE

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TSADDNEHAR FQKAKEQLEI RHRNRMDRVK KEWEEAELQA KNLPKAERQT
 LIQHFQAMVK ALEKEAASEK QQLVETHLAR VEAMLNDRRR MALENYLAAL
 QSDPPRPHRI LQALRRYVRA ENKDR LH TIR HYQHVLAVDP EAAAQMKSQV
 MTHLVIEER RNQTL SLLYK VPYVAQEIQE EIDELLQEQR ADMDQFTASI
 SETPVDVRVS SEESEI PPF HPFHPPALP ENEGSGVGEQ DGGLIGAE EK
 VINSKNK VDE NMVIDETLDV KEMIFNAERV GGLEERESV GPLREDFSL S
 SSALIGLLVI AVAIATVIVI SLVMLRKRQY GTISHGIVEV DPMLTPEERH
 LNKMQNHGYE NPTYKYLEQM QI

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

[APLP2 amyloid beta \(A4\) precursor-like protein 2 \[Homo sapiens \]](#)

Official Symbol

[APLP2](#)

Synonyms

APLP2; amyloid beta (A4) precursor-like protein 2; APPL2; amyloid-like protein 2;
 APPH; CDEI box-binding protein; amyloid precursor protein homolog HSD-2; CDEBP;
 APLP-2

Gene ID

[334](#)

mRNA Refseq

[NM_001142276](#)

Protein Refseq

[NP_001135748](#)

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MIM	104776
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UniProt ID	Q06481
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