

# Recombinant Full Length Human APLP2 Protein, GST-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | Human APLP2 full-length ORF ( AAH04371.1, 1 a.a. - 522 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 522 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 85.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MAATGTAAAA ATGRLLLLLL VGLTAPALAL AGYIEALAN AGTGFAVAEP<br>QIAMFCGKLN MHVNIQTGKW EPDPTGTKSC FETKEEVLQY CQEMYPELQI<br>TNVMEANQRV SIDNWCRRDK KQCKSRFVTP FKCLVPPTPL PTNDVDVYFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

TSADDNEHAR FQKAKEQLEI RHRNRMDRVK KEWEEAELQA KNLPKAERQT  
 LIQHFQAMVK ALEKEAASEK QQLVETHLAR VEAMLNDRRR MALENYLAAL  
 QSDPPRPHRI LQALRRYVRA ENKDR LHTIR HYQHVLAVDP EKAAQMKSQV  
 MTHLHVIEER RNQTL SLLYK VPYVAQEIQE EIDELLQEQR ADM DQFTASI  
 SETPVDVRVS SEES EIPPF HPFHPPALP ENEGSGVGEQ DGGLIGAE EK  
 VINSKNK VDE NMVIDETLDV KEMIFNAERV GGLEEERESV 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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