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 AGYIEALAAN AGTGFAVAEP QIAMFCGKLN MHVNIQTGKW EPDPTGTKSC FETKEEVLQY CQEMYPELQI TNVMEANQRV SIDNWCRRDK KQCKSRFVTP FKCLVPPTPL PTNDVDVYFE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	TSADDNEHAR FQKAKEQLEI RHRNRMDRVK KEWEEAELQA KNLPKAERQT LIQHFQAMVK ALEKEAASEK QQLVETHLAR VEAMLNDRRR MALENYLAAL QSDPPRPHRI LQALRRYVRA ENKDRLHTIR HYQHVLAVDP EKAAQMKSQV MTHLHVIEER RNQTLSLLYK VPYVAQEIQE EIDELLQEQR ADMDQFTASI SETPVDVRVS SEESEEIPPF HPFHPFPALP ENEGSGVGEQ DGGLIGAEEK VINSKNKVDE NMVIDETLDV KEMIFNAERV GGLEEERESV GPLREDFSLS 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
UniProt ID	Q06481

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