

Recombinant Human APLP2 protein, GST-tagged

Cat. No. APLP2-688H **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	Wheat Germ
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	MAATGTAAAAATGRLLLLLVGLTAPALALAGYIEALAANAGTGFVAEAPQIAMFCGK LNMHVNIQTGKWEPDPTGTKSCFETKEEVLQYCQEMYPELQITNVMEANQRVSIDN WCRRDKKQCKSRFVTPFKCLVPPTPLPTNDVDVVFETSADDNEHARFQKAKEQLEI RHRNRMDRVKKEWEEAELQAKNLPKAERQTLIQHFQAMVKALEKEAASEKQQLVE

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THLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRDLHTIRHY
 QHVLAVDPEKAAQMKSQVMTHLVHVEERRNQTLSELLKVPYVAQEIQEEIDELLQEQ
 RADMDQFTASISETPVDVRVSSEESSEIIPFHPFHPFPALPENEGSGVGEQDGGGLIG
 AEEKVINSKNKVDENMVIDETLDVKEMIFNAERVGGLEEEERESVGPLREDFSLSSSA
 LIGLLVIAVAIATVIVISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHGYENPT
 YKYLEQMQI

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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

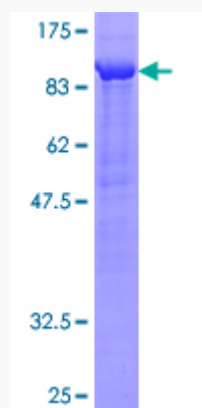
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MIM 104776

UniProt ID Q06481



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