

## Recombinant Human APLP2, GST-tagged

Cat. No. APLP2-9746H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human APLP2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 33-360a.a.   |
| <b>Description</b>      | <p>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 Alzheimers disease. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.</p> |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.  |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> ,17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100,15%glycerol.   |

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## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | APLP2 amyloid beta (A4) precursor-like protein 2 [ Homo sapiens ]   |
| <b>Official Symbol</b>     | APLP2   |
| <b>Synonyms</b>            | 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;           |
| <b>Gene ID</b>             | 334   |
| <b>mRNA Refseq</b>         | NM_001142276  |
| <b>Protein Refseq</b>      | NP_001135748  |
| <b>MIM</b>                 | 104776  |
| <b>UniProt ID</b>          | Q06481  |
| <b>Chromosome Location</b> | 11q24   |
| <b>Function</b>            | DNA binding; heparin binding; identical protein binding; peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity; transition metal ion binding; |

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