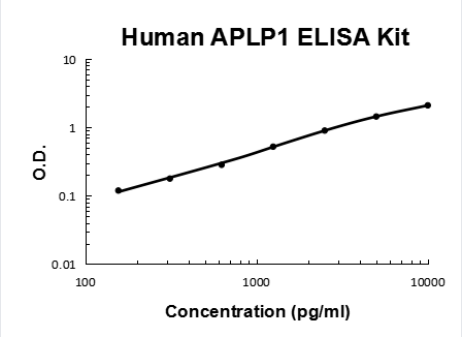
APLP1 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	APLP1, ELISA Kit
Full Product Name	Human APLP1 PicoKine Quick ELISA Kit
Product Gene Name	APLP1 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<50 pg/ml
Specificity	Natural and recombinant Human APLP1
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Molecular Weight	650
OMIM	104775
3D Structure	ModBase 3D Structure for P51693
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Product Categories/Family for APLP1 elisa kit	PicoKine ELISA Kits, Fast ELISA Kits
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for APLP1 elisa kit	ELISA (EIA)

Related Product Information for APLP1 elisa kit	Background: This gene encodes a member of the highly conserved amyloid precursor protein gene family. It is mapped to 19q13.12. The encoded protein is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta A4 precursor protein cleavage. This cleavage liberates an intracellular cytoplasmic fragment that may act as a transcriptional activator. The encoded protein may also play a role in synaptic maturation during cortical development. Alternatively spliced transcript variants encoding different isoforms have been described. Principle of the Assay: The Quick Picokine™ Human APLP1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human APLP1 in cell culture supernatants, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human APLP1 protein as standards. To measure Human APLP1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human APLP1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human APLP1 in the sample.
Other Notes	Small volumes of APLP1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for APLP1 purchase	MBS1756446 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the APLP1, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing APLP1. The ELISA analytical biochemical technique of the MBS1756446 kit is based on APLP1 antibody-APLP1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect APLP1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, APLP1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of APLP1 elisa kit
Human APLP1 PicoKine ELISA Kit standard curve

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APLP1. It may not necessarily be applicable to this product.

NCBI GI #	28558769
NCBI GeneID	333
NCBI Accession #	P51693.3
UniProt Primary Accession #	P51693
UniProt Secondary Accession #	O00113; Q96A92
UniProt Related Accession #	P51693
NCBI Official Full Name	Amyloid-like protein 1

NCBI Official Synonym Full Names	amyloid beta (A4) precursor-like protein 1
NCBI Official Symbol	APLP1
NCBI Official Synonym Symbols	APLP
UniProt Protein Name	Amyloid-like protein 1
Protein Family	Amyloid-like protein
UniProt Gene Name	APLP1
UniProt Synonym Gene Names	APLP; APLP-1
UniProt Entry Name	APLP1_HUMAN
NCBI Protein Information	amyloid-like protein 1; APLP-1; amyloid precursor-like protein 1
NCBI Summary for APLP1	This gene encodes a member of the highly conserved amyloid precursor protein gene family. The encoded protein is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta A4 precursor protein cleavage. This cleavage liberates an intracellular cytoplasmic fragment that may act as a transcriptional activator. The encoded protein may also play a role in synaptic maturation during cortical development. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for APLP1	APLP1: May play a role in postsynaptic function. The C-terminal gamma-secretase processed fragment, ALID1, activates transcription activation through APBB1 (Fe65) binding. Couples to JIP signal transduction through C-terminal binding. May interact with cellular G-protein signaling pathways. Can regulate neurite outgrowth through binding to components of the extracellular matrix such as heparin and collagen I. Belongs to the APP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Adaptor/scaffold Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: Golgi apparatus; perinuclear region of cytoplasm; integral to membrane; plasma membrane; basement membrane Molecular Function: heparin binding; identical protein binding; protein binding; alpha-2C adrenergic receptor binding; transition metal ion binding; alpha-2B adrenergic receptor binding; alpha-2A adrenergic receptor binding Biological Process: regulation of translation; nervous system development; negative regulation of cAMP biosynthetic process; organ morphogenesis; extracellular matrix organization and biogenesis; apoptosis; forebrain development; mRNA polyadenylation; endocytosis; G-protein signaling, adenylate cyclase inhibiting pathway; cell adhesion
Research Articles on APLP1	**1.** CSF levels of 3 endogenous peptides derived from APLP1 (APL1beta25, APL1beta27 and APL1beta28) were decreased in Down syndrome.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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