

## ARG82747 Human APLP1 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82747-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82747-002	Standard	2 X 10 ng/vial	4°C
ARG82747-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82747-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82747-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82747-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82747-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82747-008	25X Wash buffer	20 ml	4°C
ARG82747-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82747-010	STOP solution	10 ml (Ready to use)	4°C
ARG82747-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82747 Human APLP1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human APLP1 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	APLP1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.3% Inter-Assay CV: 6.6%

Alternate Names	APLP; Amyloid-like protein 1; APLP-1
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## Application Instructions

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Assay Time	~ 5 hours
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## Properties

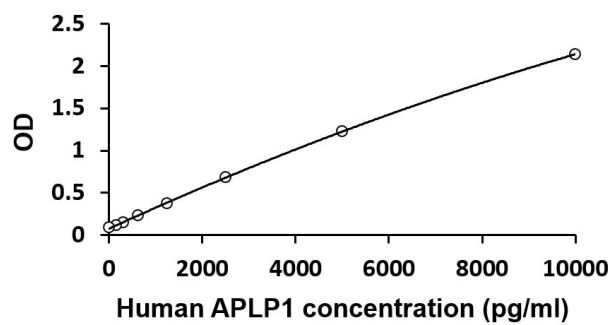
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Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	APLP1
Gene Full Name	amyloid beta (A4) precursor-like protein 1
Background	<p>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]</p>
Function	<p>May play a role in postsynaptic function. The C-terminal gamma-secretase processed fragment, ALID1, activates transcription activation through APBB1 (Fe65) binding (By similarity). 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.</p> <p>The gamma-CTF peptide, C30, is a potent enhancer of neuronal apoptosis. [UniProt]</p>
Highlight	<p>Related products: <a href="#">APLP1 antibodies</a>; <a href="#">APLP1 ELISA Kits</a>; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a></p>
PTM	<p>Proteolytically cleaved by caspases during neuronal apoptosis. Cleaved, in vitro, at Asp-620 by caspase-3 (By similarity).</p> <p>N- and O-glycosylated. O-glycosylation with core 1 or possibly core 8 glycans. Glycosylation on Ser-227 is the preferred site to Thr-228. [UniProt]</p>
Cellular Localization	Cell membrane; Single-pass type I membrane protein. C30: Cytoplasm. Note=C-terminally processed in the Golgi complex. [UniProt]



ARG82747 Human APLP1 ELISA Kit standard curve image

ARG82747 Human APLP1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.