
Product Name: KD-Validated Amyloid Beta Precursor Like Protein 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01352

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 87.0kDa

Antigen Information

Gene Name	APLP2
Alternative Names	APLP2; Amyloid Beta Precursor Like Protein 2; APPH 2; Amyloid Beta (A4) Precursor-Like Protein 2; APPL2; Sperm Membrane Protein YWK-II; CDEI Box-Binding Protein; APLP-2; CDEBP; Amyloid Precursor Protein Homolog HSD-2; Testicular Tissue Protein Li 23; Amyloid Protein Homolog; Amyloid-Like Protein 2
Gene ID	334.0
SwissProt ID	Q06481
Immunogen	A synthesized peptide derived from human APLP2

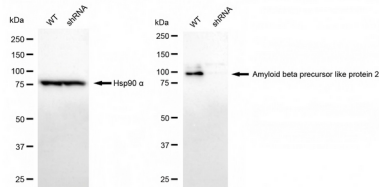
Background

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]

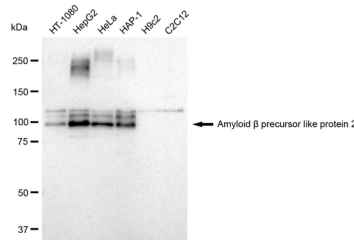
Research Area

Neuroscience

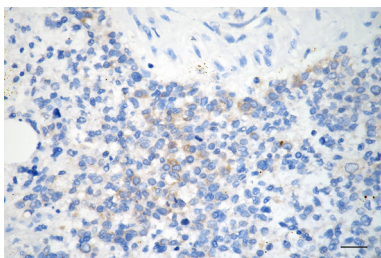
Image Data



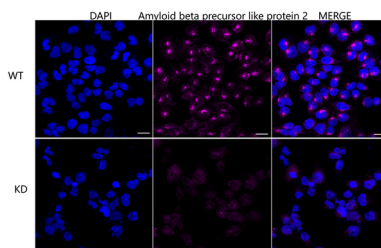
Western blotting analysis using amyloid beta precursor like protein 2 antibody (KVA01352). Amyloid beta precursor like protein 2 expression in wild type (WT) and amyloid beta precursor like protein 2 (APLP2) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with amyloid beta precursor like protein 2 antibody (KVA01352, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



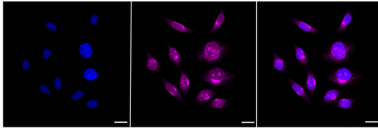
Western blotting analysis using Amyloid beta precursor like protein 2 antibody (KVA01352). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Amyloid beta precursor like protein 2 antibody (KVA01352, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



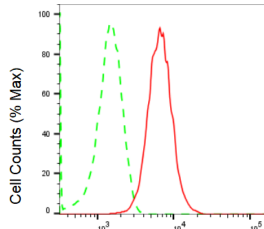
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using amyloid beta precursor like protein 2 antibody (KVA01352, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Amyloid beta precursor like protein 2 antibody (KVA01352, 1:1,000), Top panel: wild-type (WT); Bottom panel: Amyloid beta precursor like protein 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Amyloid beta precursor like protein 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with Amyloid beta precursor like protein 2 antibody (KVA01352, 1:1,000). Nuclei were stained blue with DAPI; Amyloid beta precursor like protein 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μ m.



Amyloid beta precursor like protein 2-Alexa Fluor® 647

Flow cytometric analysis of Amyloid beta precursor like protein 2 expression in HepG2 cells using Amyloid beta precursor like protein 2 antibody (KVA01352, 1:2,000). Green, isotype control; red, Amyloid beta precursor like protein 2.