
Product Name: KD-Validated Amyloid Beta Precursor Protein Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00185**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
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: 86.9kDa

Antigen Information

Gene Name	APP
Alternative Names	A4; AAA; ABETA; ABPP; AD1; AICD-50; AICD-57; AICD-59; AID(50); AID(57); AID(59); amyloid beta (A4) precursor protein; Amyloid beta A4 protein; CTFgamma ; PN 2;CD31; CVAP; APP
Gene ID	351.0
SwissProt ID	P05067
Immunogen	A synthesized peptide derived from human Amyloid beta A4

Background

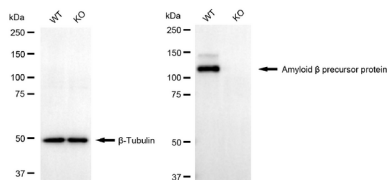
This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote

transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Aug 2014]

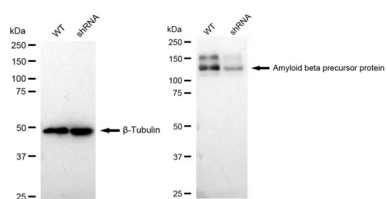
Research Area

Epigenetics and Nuclear Signaling

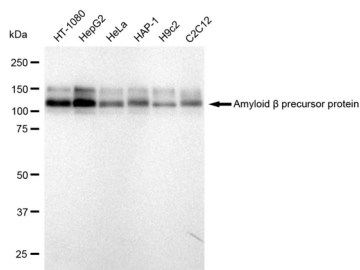
Image Data



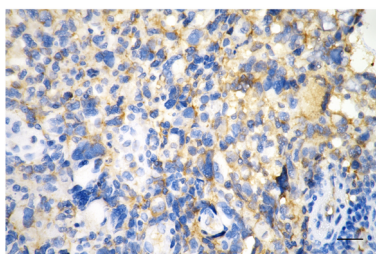
Western blotting analysis using amyloid beta precursor protein antibody (KVA00185). Amyloid beta precursor protein expression in wild type (WT) and amyloid beta precursor protein (APP) knockout (KO) 293T cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with amyloid beta precursor protein antibody (KVA00185, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



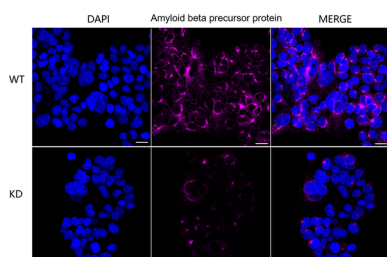
Western blotting analysis using Amyloid beta precursor protein antibody (KVA00185). Amyloid beta precursor protein expression in wild type (WT) and amyloid beta precursor protein shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Amyloid beta precursor protein antibody (KVA00185, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



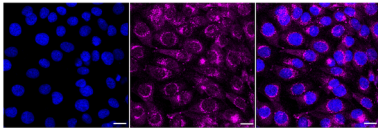
Western blotting analysis using Amyloid beta precursor protein antibody (KVA00185). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Amyloid beta precursor protein antibody (KVA00185, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



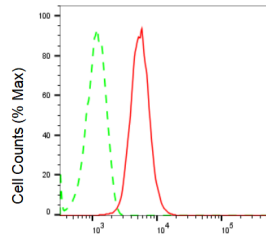
Immunohistochemistry was performed on paraffin-embedded human glioblastoma using amyloid beta precursor protein antibody (KVA00185, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Amyloid beta precursor protein antibody (KVA00185, 1:1,000). Top panel: wild-type (WT); Bottom panel: Amyloid beta precursor protein shRNA knockdown (KD). Nuclei were stained blue with DAPI; Amyloid beta precursor protein was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HT-1080 cells with Amyloid beta precursor protein antibody (KVA00185, 1:1,000). Nuclei were stained blue with DAPI; Amyloid beta precursor protein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



Amyloid beta precursor protein-Alexa Fluor® 647

Flow cytometric analysis of Amyloid beta precursor protein expression in HepG2 cells using Amyloid beta precursor protein antibody (KVA00185, 1:2,000). Green, isotype control; red, Amyloid beta precursor protein.