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[KO Validated] APP Rabbit mAb

Catalog No.: A17911 KO Validated Recombinant 8 Publications

Basic Information

Observed MW
100-140kDa

Calculated MW
87kDa

Category
Primary antibody

Applications
ELISA,WB,IF/ICC,IP

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC0465

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.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID
351

Swiss Prot
P05067

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 671-770 of human APP (P05067).

Synonyms
AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; preA4; CTFgamma; alpha-sAPP; PP

Contact

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Product Information

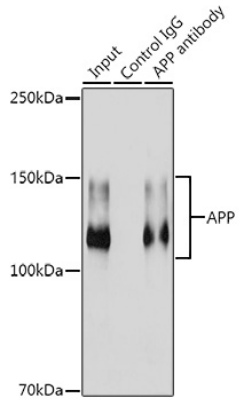
Source
Rabbit

Isotype
IgG

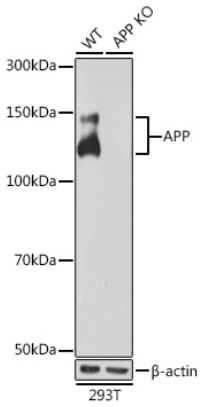
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

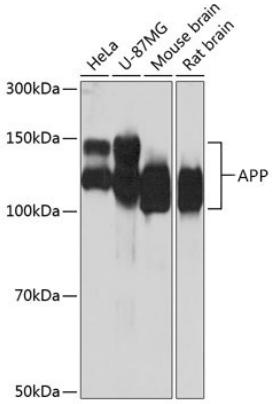
Validation Data



Immunoprecipitation analysis of 300 µg extracts from HeLa cells using 3 µg [KO Validated] APP Rabbit mAb (A17911). Western blot was performed from the immunoprecipitate using [KO Validated] APP Rabbit mAb (A17911) at a dilution of 1:1000.

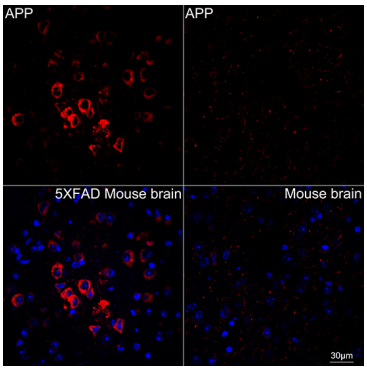


Western blot analysis of lysates from wild type (WT) and APP knockout (KO) 293T cells, using [KO Validated] APP Rabbit mAb (A17911) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

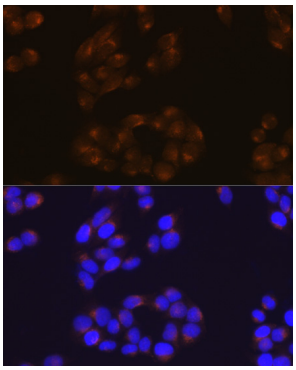


Western blot analysis of various lysates using [KO Validated] APP Rabbit mAb (A17911) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

Validation Data



Confocal imaging of paraffin-embedded 5XFAD Mouse brain and Mouse brain using [KO Validated] APP Rabbit mAb (A17911, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x.



Immunofluorescence analysis of HeLa cells using APP Rabbit mAb (A17911) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.