Leader in Biomolecular Solutions for Life Science

[KO Validated] APP Rabbit mAb

Catalog No.: A17911

Recombinant | 26 Publications

www.abclonal.com

Basic Information

Observed MW
100-140kDa

Calculated MW
87kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, IF-F, IF-P, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
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	1:1000 - 1:6000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
IF/ICC	1:100 - 1:800
IF-F	1:300 - 1:800
IF-P	1:100 - 1:800
IHC-P	1:2000 - 1:8000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
351

Swiss-Prot
P05067

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

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

Contact

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Product Information

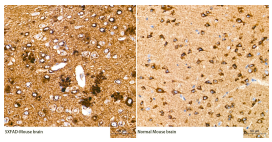
Source
Rabbit

Isotype
IgG

Purity
Affinity purification

Storage
Store at -20℃

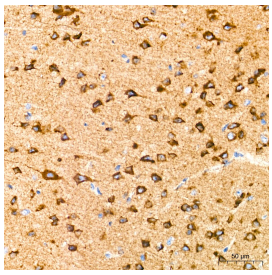
Validation Data



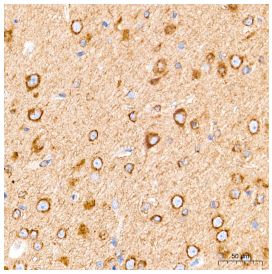
Immunohistochemistry analysis of paraffin-embedded (5XFAD)Mouse brain and normal Mouse brain tissue using [KO Validated] APP Rabbit mAb (A17911) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



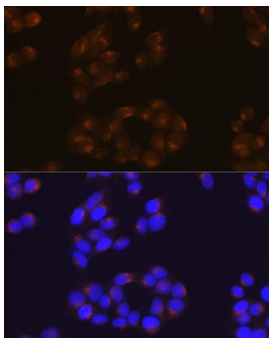
Immunohistochemistry analysis of paraffin-embedded (5XFAD)Mouse brain tissue using [KO Validated] APP Rabbit mAb (A17911) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



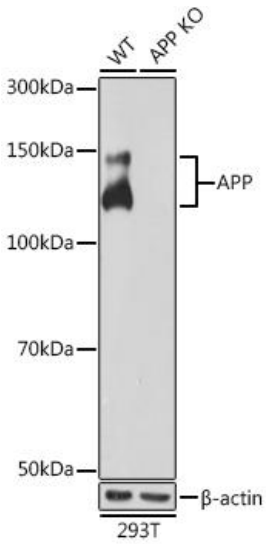
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KO Validated] APP Rabbit mAb (A17911) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



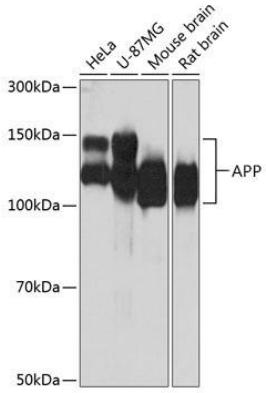
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using [KO Validated] APP Rabbit mAb (A17911) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



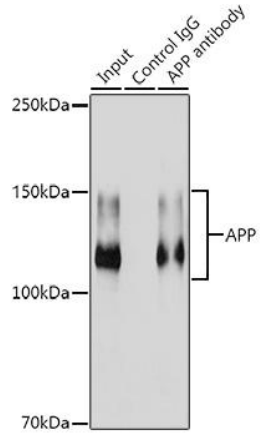
Immunofluorescence analysis of HeLa cells using APP Rabbit mAb (A17911) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



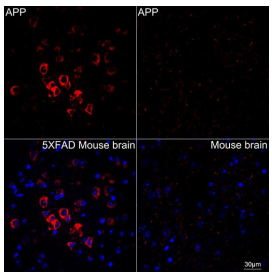
Western blot analysis of lysates from wild type (WT) and APP knockout (KO) 293T cells, using [KO Validated] APP Rabbit mAb (A17911) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat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



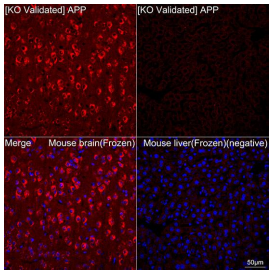
Western blot analysis of various lysates using [KO Validated] APP Rabbit mAb (A17911) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit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



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.



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.



Confocal imaging of frozen sections of Mouse brain tissue and Mouse liver tissue (negative) using [KO Validated] APP Rabbit mAb (A17911, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.