OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA306769

Amyloid Precursor Protein (APP) Rabbit Polyclonal Antibody

Product data:

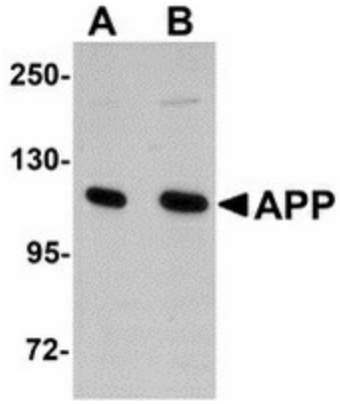
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	APP antibody was raised against an 18 amino acid peptide near the amino terminus of human APP.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	amyloid beta precursor protein
Database Link:	CAA30050 Entrez Gene 351 Human P05067

View online »

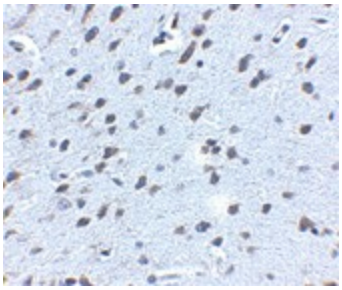
Background: Accumulation of the amyloid-beta peptide (Abeta) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. The beta-amyloid protein precursor (APP) is cleaved by one of two beta-secretases (BACE and BACE2), producing a soluble derivative of the protein and a membrane anchored 99-amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for gamma-secretase to generate the 4 kDa amyloid-beta peptide (Abeta), which is deposited in the Alzheimer's disease patients' brains. Recently, Death Receptor 6 (DR6) was found to interact with an amino-terminal fragment of the Beta-amyloid protein (N-APP) in neurons, activating a caspase 6-dependent apoptotic event leading to axonal degeneration and pruning during development, suggesting that these two proteins are involved in neural development and may possibly play a role in Alzheimer's disease.

Synonyms: AAA; ABETA; ABPP; AD1; APPI; CTFgamma; CVAP; PN-II; PN2

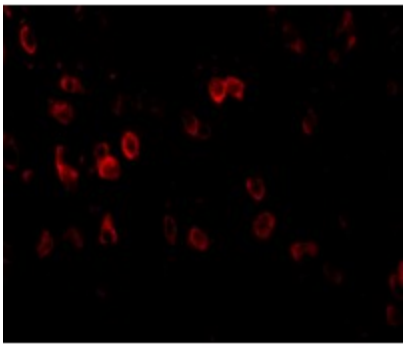
Product images:



Western blot analysis of APP in rat brain tissue lysate with APP antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of APP in mouse brain tissue with APP antibody at 2.5 ug/ml.



Immunofluorescence of APP in mouse brain tissue with APP antibody at 20 ug/mL.