

Anti-Amyloid-beta A4 protein APP Antibody

Catalog Number: A00081

About APP

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 beta-secretase, 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 brains of all suffers of Alzheimer's disease.

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Overview

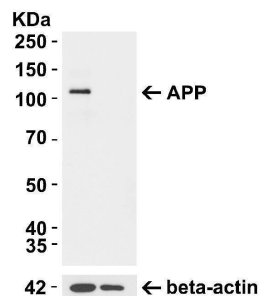
Product Name	Anti-Amyloid-beta A4 protein APP Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Amyloid-beta A4 protein APP Antibody (Catalog # A00081). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	APP Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	APP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P05067

Technical Details

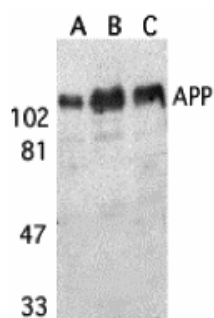
Immunogen	APP antibody was raised against a peptide corresponding to 10 amino acids of human amyloid A4 protein precursor (APP) corresponding to the amino terminus of the 4K Ab peptide generated by beta- and gamma-secretases. The immunogen is located within amino acids 650 - 700 of APP.
Predicted Reactive Species	Bovine, Guinea Pig, Pig, Rabbit, Sheep
Isotype	IgG

Form	Liquid
Concentration	1 mg/mL
Purification	APP Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	APP antibody can be used for detection of APP and Ab peptide by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. Antibody validated: Western Blot in human, mouse, and rat samples; Immunohistochemistry in human samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

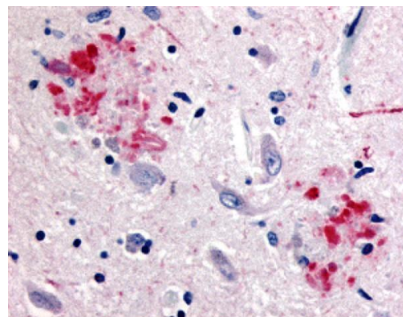
Anti-Amyloid-beta A4 protein APP Antibody (A00081) Images



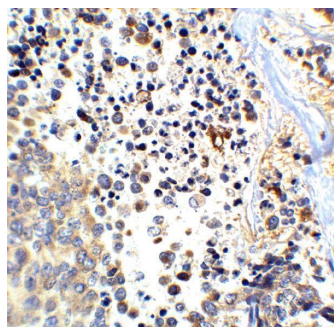
APP KO Validation in 293T Cells Loading: 10 ug of lysate
Antibodies: APP A00081, 0.5 ug/mL and beta-actin 3779-1301, 1ug/mL, 1 h incubation at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western blot analysis of APP in (A) human, (B) mouse, and (C) rat brain tissue lysates with APP antibody at 1 ug/mL.

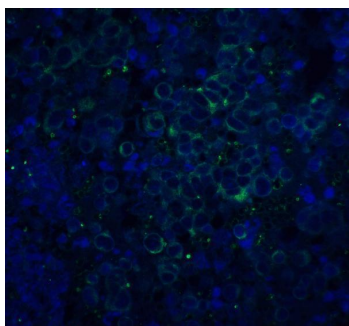


Immunohistochemistry of APP in human brain (Alzheimer's disease) tissue with APP antibody at 10 ug/mL.



Immunohistochemistry of APP in human brain tissue with APP antibody at 2.5 ug/mL.

Immunofluorescence of ASAHI in rat heart tissue with ASAHI antibody at 20 ug/mL. Green: APP Antibody (A00081)
Blue: DAPI staining



[Anti-Amyloid-beta A4 protein APP Antibody](#)

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