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Anti-APP (Aβ-NT)

CATALOG NO.: PX178A SIZE: 100 µg
PX178B SIZE: 0.5 mg

BACKGROUND:

Accumulation of the amyloid-β peptide (Aβ) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. The β–amyloid protein precursor (APP) is cleaved by β–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 γ–secretase to generate the 4 kDa amyloid-β peptide (Aβ), which is deposited in the brains of all suffers of Alzheimer's disease.

SOURCE:

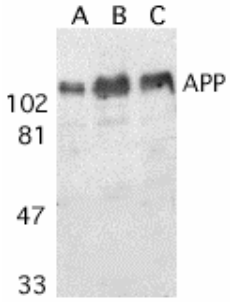
Rabbit anti-APP (Aβ-NT) polyclonal antibody was raised against a peptide corresponding to amino acids 653 to 662 of human amyloid A4 protein precursor (APP) (1) or 1 to 10 of the 4K Aβ peptide generated by β– and γ–secretases (2). The peptide sequences are identical to those of rabbit, pig, bovine, guinea pig, and chicken.

APPLICATION:

This polyclonal antibody can be used for detection of APP and Aβ peptide by Western blot at 1:500 to 1:1000 dilution. Murine brain lysate can be used as positive control. It is human, mouse, and rat reactive. This antibody is for research use only.

STORAGE:

It is supplied as affinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of APP in human (A), mouse (B), and rat (C) brain tissue lysates with anti-APP (Aβ-NT) at 1:500 dilution.

RELATED PRODUCTS:

Blocking peptide, 100 µg / 500 µl, is available for competition studies.

Murine brain tissue lysate, 500 µg / 200 µl, is available for positive control.

REFERENCES:

1. Ponte P, Gonzalez-DeWhitt P, Schilling J, Miller J, Hsu D, Greenberg B, Davis K, Wallace W, Lieberburg I, Fuller F. A new A4 amyloid mRNA contains a domain homologous to serine proteinase inhibitors. *Nature* 1988;331:525-7.

2. Selkoe D.J. Cell biology of the amyloid beta-protein precursor and the mechanism of Alzheimer's disease. *Annu Rev Cell Biol* 1994;10:373-403

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

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