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Anti-APP (CT)

CATALOG NO.: PX181A SIZE: 100 µg
PX181B 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:

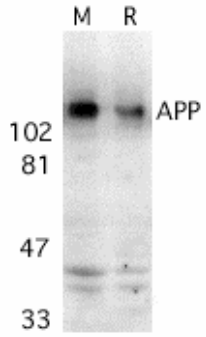
Rabbit anti-APP (CT) polyclonal antibody was raised against a peptide corresponding to amino acids 737 to 751 of human amyloid A4 protein precursor (APP) (1) or 85 to 99 of the C99 fragment generated by β– secretase cleavage (2). The peptide sequences are identical to those of monkey, mouse, rat, chicken, and a variety of other species.

APPLICATION:

This polyclonal antibody can be used for detection of APP and the C99 fragment 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 mouse (M) and rat (R) brain tissue lysates with anti-APP (CT) 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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