

Amyloid Precursor Protein (APP) (CT). Rabbit Polyclonal Antibody
Alzheimer disease amyloid protein, ABPP. APPI, PreA4, Cerebral vascular amyloid peptide

BACKGROUND

Accumulation of the amyloid- β peptide ($A\beta$) 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 ($A\beta$), which is deposited in the brains of all sufferers of Alzheimer's disease.

ORDERING INFORMATION

CATALOG NUMBER
X1134P

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human, Mouse, Rat

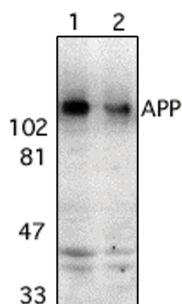
ACCESSION NUMBER

Human P05067

IMMUNOGEN

Synthetic peptide corresponding to amino acids 737 to 751 of human amyloid A4 protein precursor (APP) or 85 to 99 of the C99 generated by β secretases. This sequence is identical to those of monkey, mouse, rat, chicken and a variety of other species.

Western blot analysis using APP (CT) antibody (Cat. No. X1134P) on mouse (1) and rat (2) brain tissue lysate.



POSITIVE CONTROL/TISSUE EXPRESSION

Murine brain lysate

COMMENTS

Detects APP and C99 fragment by Western blot at 0.5 to 1 $\mu\text{g/ml}$. Detects an approximately 120 kDa band in human, mouse and rat brain tissue lysates. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Ponte, P., et al. A new A4 amyloid mRNA contains a domain homologous to serine proteinase inhibitors. Nature 1988, 331, 525-527.
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

PRODUCT SPECIFIC REFERENCES