



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. 74-106EX

Anti-Amyloid Precursor Protein (APP N-terminus) antibody,(AN1)

BACKGROUND

The **Alzheimer amyloid precursor protein (APP)** is an integral membrane protein expressed in many tissues and concentrated in the synapses of neurons. Its primary function is not known, though it has been implicated as a regulator of synapse formation and neural plasticity. **APP** is best known and most commonly studied as the precursor molecule whose proteolysis generates amyloid beta ($A\beta$), a 39- to 42-amino acid peptide whose amyloid fibrillar form is the primary component of amyloid plaques found in the brains of Alzheimer's disease patients. Isoform **APP695** lacking the protease inhibitor domain is the predominant form in neuronal tissues. An antibody (named AN2) against the N-terminus of human **APP** (aa 18-38) was raised in rabbit.

Product type	Primary antibodies
Host	Rabbit
Source	Serum
Form	Antiserum added with 0.05% sodium azide
Volume	100 μ L
Concentration	
Immunogen	Synthetic peptide corresponding to the N-terminus (aa 18-38) of human APP

Application notes 1. Western blotting (dilution: 1/3,000-1/1,000) 2. Immunocytochemistry (dilution: 1/1,000-1/500)

Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

Data Link UniProtKB/Swiss-Prot [P05067](#) (A4_HUMAN)

Reactivity Specific to human, mouse and rat

Storage Shipped at 4°C and stored at -20°C

References

This antibody was used in 1. Kang HG *et al.* (1987) "The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor." *Nature* **325**: 33-736 PMID: [2881207](#)
ref.2, 3,4 and 5.

2. Selkoe DJ (1994) "Normal and abnormal biology of the beta-amyloid precursor protein." *Annu. Rev. Neurosci.* **17**: 489-517 PMID: [8210185](#)

3. Nishimura I *et al.* (2002) "Cell death induced by a caspase-cleaved transmembrane fragment of the Alzheimer amyloid precursor protein." *Cell Death Differ.* **9**: 199-208 PMID: [11840170](#)

4. Nishimura I *et al.* (2003) "Upregulation and antiapoptotic role of endogenous Alzheimer amyloid precursor protein in dorsal root ganglion neurons." *Exp. Cell Res.* **286**: 241-251 PMID: [12749853](#)

Related product [#74-104EX](#) anti-APP (C-terminus) antibody



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Anti-Amyloid Precursor Protein (APP N-terminus) antibody, rabbit serum (AN1)

#74-108EX anti-APP (C-terminus of the caspase3-cleaved APP)antibody

#74-110EX anti-APP Δ 31(specific to C-terminal APP Δ 31) antibody

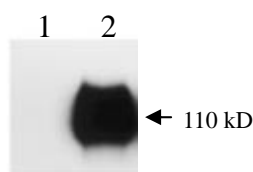


Fig.1 Western blot analysis of APP.

Human NT2 neurons infected with adenovirus expressing β -galactosidase (lane 1) or wild-type APP (lane 2) were analyzed by Western blotting using this antibody. Wild-type APP was abundantly expressed in NT2 cells (ref.3).

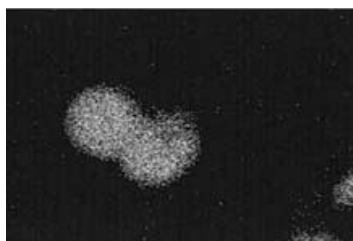


Fig.2 Immunocytochemistry for APP.

Mouse dorsal root ganglion cells were treated with this antibody to examine neuronal APP expression (ref.4).

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