

Product datasheet for **TA326769**

Amyloid Precursor Protein (APP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	N term -peptide of human APP
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	amyloid beta precursor protein
Database Link:	NP_000475 Entrez Gene 351 Human P05067



[View online »](#)

Background:

Amyloid β ($A\beta$) precursor protein (APP) is a 100-140 kDa transmembrane glycoprotein that exists as several isoforms (1). The amino acid sequence of APP contains the amyloid domain ($A\beta$), which can be released by a two-step proteolytic cleavage (1). The extracellular deposition and accumulation of the released $A\beta$ fragments form the main components of amyloid plaques in Alzheimer's disease (1). APP can be phosphorylated at several sites, which may affect the proteolytic processing and secretion of this protein (2-5). Phosphorylation at Thr668 (at a position corresponding to the APP695 isoform) by cyclin-dependent kinase is cell cycle-dependent and peaks during G2/M-phase (4). APP phosphorylated at Thr668 exists in adult rat brain and correlates with cultured neuronal differentiation (5,6). 1. Selkoe, D.J. (1996) *J Biol Chem* 271, 18295-8. 2. Caporaso, G.L. et al. (1992) *Proc Natl Acad Sci USA* 89, 3055-9. 3. Hung, A.Y. and Selkoe, D.J. (1994) *EMBO J* 13, 534-42. 4. Suzuki, T. et al. (1994) *EMBO J* 13, 1114-22. 5. Ando, K. et al. (1999) *J Neurosci* 19, 4421-7. 6. Iijima, K. et al. (2000) *J Neurochem* 75, 1085-91.

Synonyms:

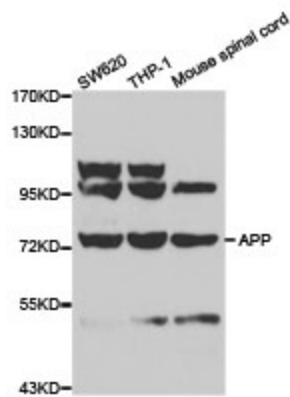
AAA; ABETA; ABPP; AD1; APPI; CTFgamma; CVAP; PN-II; PN2

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Alzheimer's disease

Product images:

Western blot analysis of extracts of various cell lines, using APP antibody.