

APP

Reactivity:Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:100

Calculated MW:87kDa

Observed MW:Refer to Figures

Immunogen:

A synthetic peptide of human APP

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

APP;AAA;ABETA;ABPP;AD1;APP1;CTFgamma;CVAP;PN2;amyloidP; Amyloid beta A4 protein; A4; Beta Amyloid

Catalog #:A11019

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:351

Isotype:IgG

Swiss Prot:P05067

Purity:Affinity purification

For research use only.

Background:

Amyloid (A) 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), which can be released by a two-step proteolytic cleavage (1). The extracellular deposition and accumulation of the released A 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).

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