

APP (Phospho Thr668) Rabbit Polyclonal Antibody

Catalog# UZ-PA00786

Product information

产品货号	UZ-PA00786
别名	Amyloid beta A4 protein (ABPP) (APPI) (APP) (Alzheimer disease amyloid protein) (Cerebral vascular amyloid peptide) (CVAP) (PreA4) (Protease nexin-II) (PN-II) [Cleaved into: N-APP; Soluble APP-alpha (S-APP-alpha); Soluble APP-beta (S-APP-beta); C99; Beta-amyloid protein 42 (Beta-APP42); Beta-amyloid protein 40 (Beta-APP40); C83; P3(42); P3(40); C80; Gamma-secretase C-terminal fragment 59 (Amyloid intracellular domain 59) (AICD-59) (AID(59)) (Gamma-CTF(59)); Gamma-secretase C-terminal fragment 57 (Amyloid intracellular domain 57) (AICD-57) (AID(57)) (Gamma-CTF(57)); Gamma-secretase C-terminal fragment 50 (Amyloid intracellular domain 50) (AICD-50) (AID(50)) (Gamma-CTF(50)); C31];A4;AD1
产品名称	APP (Phospho Thr668) Rabbit Polyclonal Antibody
类别	抗体产品
基因名称	APP
推荐应用	WB
反应种属	Human,Mouse,Rat
存储缓冲液	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N
Human Gene ID	351
Human Swissprot No.	P05067
免疫原	Synthesized phospho peptide around human APP (Thr668)
稀释度	WB 1:1000-2000
预测分子量	87kDa
运输及保存条件	-20°C/1 year
宿主	Rabbit
同种型	Rabbit,IgG
背景介绍	This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. In addition, two of the peptides are antimicrobial peptides, having been shown to have bactericidal and antifungal activities. Mutations in this gene have been implicated in an autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Aug 2014],

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细胞定位

Cell membrane ; Single-pass type I membrane protein . Membrane ; Single-pass type I membrane protein . Perikaryon . Cell projection, growth cone . Membrane, clathrin-coated pit . Early endosome . Cytoplasmic vesicle . Cell surface protein that rapidly becomes internalized via clathrin-coated pits. Only a minor proportion is present at the cell membrane; most of the protein is present in intracellular vesicles (PubMed:20580937). During maturation, the immature APP (N-glycosylated in the endoplasmic reticulum) moves to the Golgi complex where complete maturation occurs (O-glycosylated and sulfated). After alpha-secretase cleavage, soluble APP is released into the extracellular space and the C-terminal is internalized to endosomes and lysosomes. Some APP accumulates in secretory transport vesicles leaving the late Golgi compartment and returns to the cell surface. APP sorts to the basolateral surface in epithelial cells. During neuronal differentiation, the Thr-743 phosphorylated form is located mainly in growth cones, moderately in neurites and sparingly in the cell body (PubMed:10341243). Casein kinase phosphorylation can occur either at the cell surface or within a post-Golgi compartment. Associates with GPC1 in perinuclear compartments. Colocalizes with SORL1 in a vesicular pattern in cytoplasm and perinuclear regions. .; [C83]: Endoplasmic reticulum . Golgi apparatus . Early endosome .; [C99]: Early endosome .; [Soluble APP-beta]: Secreted .; [Amyloid-beta protein 42]: Cell surface. Associates with FPR2 at the cell surface and the complex is then rapidly internalized. .; [Gamma-secretase C-terminal fragment 59]: Nucleus . Cytoplasm . Located to both the cytoplasm and nuclei of neurons. It can be translocated to the nucleus through association with APBB1 (Fe65) (PubMed:11544248). In dopaminergic neurons, the phosphorylated Thr-743 form is localized to the nucleus (By similarity). .

纯化

The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Clonality

Polyclonal