

Datasheet for ABIN350071 anti-APP antibody (AA 400-450)



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Quantity:	500 μg
Target:	APP
Binding Specificity:	AA 400-450
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Rabbit antibody to APP (400-450)	
Immunogen:	A synthetic peptide from AA 400-450 of human APP conjugated to blue carrier protein was used as the antigen.	
Isotype:	IgG	
Specificity:	Specific for APP.	
Cross-Reactivity:	Human, Mouse, Rat	
Cross-Reactivity (Details):	Other species not yet tested.	
Purification:	IgG	

Target Details

Target Details	100	
Target:	APP	
Alternative Name:	APP (APP Products)	
Background:	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. Mutations in this gene have been implicated in autosomal dominant	
	Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple	
	transcript variants encoding several different isoforms have been found for this gene.	
	SUBCELLULAR LOCATION: Membrane, Single-pass type I membrane protein. Membrane	
	clathrin-coated pit. Note: Cell surface protein that rapidly becomes internalized via clathrin-	
	coated pits. 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.	
	Gamma-CTF(59) peptide is located to both the cytoplasm and nuclei of neurons. It can be	
	translocated to the nucleus through association with Fe65. Beta-APP42 associates with FPRL1	
	at the cell surface and the complex is then rapidly internalized (By similarity). 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. TISSUE SPECIFICITY: In the brain non-L-APP isoforms are expressed in neurons	
	isoform APP695 being the predominant form. In astrocytes and microglial cells almost 50 % is	
	L-isoform (appican). DEVELOPMENTAL STAGE: From 6 days to 7 months levels of KPI-	
	containing isoforms increase in the brain cortex and hippocampus. Levels of L-APP increase in	
	all brian regions during the same period but levels are low compared to non-L-APP isoforms.	
JniProt:	Q6GSC0	
Pathways:	Caspase Cascade in Apoptosis, EGFR Signaling Pathway, Transition Metal Ion Homeostasis,	
,	Skeletal Muscle Fiber Development, Toll-Like Receptors Cascades, Feeding Behaviour	
Application Details		
Application Notes:	IHC WB. A working concentration of 10-50,micro,g,ml is recommended. The optimal	
	concentration should be determined by the end user. Not yet tested in other applications.	
Restrictions:	For Research Use only	

Handling

Format:	Lyophilized	
Reconstitution:	Reconstitute in 500 µl of sterile water. Centrifuge to remove any insoluble material.	
Handling Advice:	Avoid freeze and thaw cycles.	
Storage:	4 °C,-20 °C	
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.	
Expiry Date:	12 months	