Phospho-APP (Thr668) Antibody



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 100-140	Source/Isotype: Rabbit	UniProt ID: #P05067	Entrez-Gene Id: 351
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-APP (Thr668) Antibody detects different isoforms of endogenous amyloid β (A4) precursor protein only when phosphorylated at Thr668 (or the corresponding position on other isoforms).				
Species predicted to react based on 100% sequence homology		Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr668 of human APP695. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Amyloid β (A β) 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, which can be released by a two-step proteolytic cleavage (1). The extracellular deposition and accumulation of the released A β 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 (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).				
Background References		1. Selkoe, D.J. (1996) <i>J Biol Chem</i> 271, 18295-8. 2. Caporaso, G.L. et al. (1992) <i>Proc Natl Acad Sci USA</i> 89, 3055-9. 3. Hung, A.Y. and Selkoe, D.J. (1994) <i>EMBO J</i> 13, 534-42. 4. Suzuki, T. et al. (1994) <i>EMBO J</i> 13, 1114-22. 5. Ando, K. et al. (1999) <i>J Neurosci</i> 19, 4421-7. 6. Iijima, K. et al. (2000) <i>J Neurochem</i> 75, 1085-91.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.	western hlot)

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Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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