Store at -20C

## Phospho-APP (Thr668) (D90B8) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100-140	Source/Isotype: Rabbit IgG	UniProt ID: #P05067	Entrez-Gene Id: 351	
Product Usage Information	Ap	plication		Dilution			
	We	stern Blotting			1:1000		
	lmı	nunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensiti	Phospho-APP (Thr668) (D90B8) Rabbit mAb detects different isoforms of endogenous amyloid $\beta$ (A4) precursor protein only when phosphorylated at Thr668 (or the corresponding position of other isoforms).						
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr668 of human APP protein.					
Background	sevo rele rele be prot dep	Amyloid $\beta$ (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, 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 (a position corresponding to the APP695 isoform) by cyclindependent 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 Refere	2. C 3. H 4. S 5. A	<ol> <li>Selkoe, D.J. (1996) J Biol Chem 271, 18295-8.</li> <li>Caporaso, G.L. et al. (1992) Proc Natl Acad Sci USA 89, 3055-9.</li> <li>Hung, A.Y. and Selkoe, D.J. (1994) EMBO J 13, 534-42.</li> <li>Suzuki, T. et al. (1994) EMBO J 13, 1114-22.</li> <li>Ando, K. et al. (1999) J Neurosci 19, 4421-7.</li> <li>Iijima, K. et al. (2000) J Neurochem 75, 1085-91.</li> </ol>					

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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** 

WB: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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