

## 0099

## APP (E4H1U) Rabbit mAb



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

<b>Applications:</b> W, IP, IF-F, IF-IC	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 9, 100-140	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P05067	Entrez-Gene Id: 351
Product Usage Information		Application Western Blotting			<b>Dilution</b> 1:1000	
		Immunoprecipitation			1:50	
		Immunofluorescence (Frozen)			1:1600	
		Immunofluorescence (Immunocytochemistry)			1:3200 - 1:6400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		APP (E4H1U) Rabbit mAb recognizes endogenous levels of total APP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human APP protein.				
Background		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 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		<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

TRS 0.40% Transport 20 at 465 with possible deal line properties.

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

Applications Key W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen) IF-IC:

Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human M: Mouse R: Rat

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