

14974

β-Amyloid (1-42) (D9A3A) Rabbit mAb



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

Applications: W, IF-F	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 4	Source/Isotype: Rabbit IgG	UniProt ID: #P05067	Entrez-Gene Id: 351
Product Usage Information		Application Western Blotting Immunofluorescence (Frozen)			Dilution 1:1000 1:1600	
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. Do not aliquot the antibody.				
Specificity/Sensitivity		β -Amyloid (1-42) (D9A3A) Rabbit mAb recognizes endogenous levels of total A β -42 peptide. This antibody may cross-react with A β -43 peptide. This product detects transgenically expressed human APP in mouse models.				
Species predic based on 100% homology		Mouse, Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human β -amyloid (1-42) peptide.				
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		 Selkoe, D.J. (1996) J Biol Chem 271, 18295-8. Caporaso, G.L. et al. (1992) Proc Natl Acad Sci USA 89, 3055-9. Hung, A.Y. and Selkoe, D.J. (1994) EMBO J 13, 534-42. Suzuki, T. et al. (1994) EMBO J 13, 1114-22. Ando, K. et al. (1999) J Neurosci 19, 4421-7. Iijima, K. et al. (2000) J Neurochem 75, 1085-91. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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.				n 5% w/v BSA, 1X
Applications Key		W: Western Blotting IF-F: Immunofluorescence (Frozen)				
Cross-Reactivity Key		H: Human				
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