β-Amyloid (D54D2) XP[®] Rabbit mAb



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Applications: W, IP, IF-F	Reactivity:	Sensitivity: Endogenous	MW (kDa): 5	Source/Isotype: Rabbit IgG	UniProt ID: #P05067	Entrez-Gene Id: 351
Product Usage		Application		Dilution		
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
		Immunofluorescence	(Frozen)		1:800 - 1:1600)
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier-free (BSA and azide free) version of this product see product #38424.				
Specificity/Sensitivity		β -Amyloid (D54D2) XP [®] Rabbit mAb recognizes endogenous levels of total β -amyloid peptide (A β). The antibody detects several isoforms of A β , such as A β -37, A β -38, A β -39, A β -40, and A β -42. This product detects transgenically expressed human APP in mouse models.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human β -amyloid peptide (A β).				
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 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

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

Cross-Reactivity Key

H: Human

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