mAb

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*‡*2450

Cell Signaling APP/β-Amyloid (NAB228) Mouse

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	Activity: Sensitivity: Mk B Endogenous	MW (kDa): 100 to 140	Source/Isotype: Mouse IgG2a	UniProt ID: #P05067	Entrez-Gene Id: 351		
Product Usage Information	Application Western Blotting Immunohistochemistry Immunofluorescence (I	. ,		Dilution 1:1000 1:100 - 1:4 1:200 - 1:8			
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.					
Specificity / Sensitivity	Although this antibody r	APP/beta-Amyloid (NAB228) Mouse mAb detects endogenous levels of APP/beta-Amyloid protein. Although this antibody recognizes both the phospho and non-phospho forms of the protein, it has been shown to prefer the phosphorylated form in some systems.					
Species predicted to react based on 100% sequence homology:	Dog, Pig						
Source / Purification		Monoclonal antibody is produced by immunizing animals with beta-amyloid and the epitope maps to the amino terminus of beta-amyloid (Lee et al., 2003).					
Background	several isoforms (1). Th released by a two-step released Aβ fragments be phosphorylated at se protein (2-5). Phosphory dependent kinase is cel	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 Reference	 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 dete	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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB: Western Blotting IF	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)					
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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Limited Uses

APP/β-Amyloid (NAB228) Mouse mAb (#2450) Datasheet Without Images Cell Signaling Technology

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