β-Amyloid Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 5	Source/Isotype: Rabbit	UniProt ID: #P05067	Entrez-Gene Id: 351
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		beta-Amyloid Antibody detects several isoforms of beta-amyloid peptide (Abeta), such as Abeta-40, Abeta-42 etc, regardless of phosphorylation state.				
Species predicted to react based on 100% sequence homology		Rat, Bovine, Dog, Pig, Guinea Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the amino terminus of human beta-amyloid peptides. Antibodies are purified by protein A and peptide affinity chromatography.				
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		1. Selkoe, D.J. (1996) <i>J Biol Chem</i> 271, 18295-8. 2. Caporaso, G.L. et al. (1992) <i>Proc Natl Acad Sci USA</i> 89, 3055-9. 3. Hung, A.Y. and Selkoe, D.J. (1994) <i>EMBO J</i> 13, 534-42. 4. Suzuki, T. et al. (1994) <i>EMBO J</i> 13, 1114-22. 5. Ando, K. et al. (1999) <i>J Neurosci</i> 19, 4421-7. 6. Iijima, K. et al. (2000) <i>J Neurochem</i> 75, 1085-91.				
Species Reacti	vity	Species reactivity is de	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.				
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Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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