β-Amyloid Antibody



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 5	Source: Rabbit	UniProt ID: #P05067	Entrez-Gene Id 351	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		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.					
		beta-Amyloid Antibody detects several isoforms of beta-amyloid peptide (Abeta), such as Abeta-40, Abeta-42 etc, regardless of phosphorylation state.					
Species predicte react based on 1 sequence homol	00%	Rat, Bovine, Dog, Pig, Guinea Pig					
Source / Purifica		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					

Background

Amyloid β (Aβ) 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 Aß 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 cyclindependent 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) J Biol Chem 271, 18295-8.

peptide affinity chromatography.

- 2. Caporaso, G.L. et al. (1992) Proc Natl Acad Sci USA 89, 3055-9.
- 3. Hung, A.Y. and Selkoe, D.J. (1994) EMBO J 13, 534-42.
- 4. Suzuki, T. et al. (1994) EMBO J 13, 1114-22.
- 5. Ando, K. et al. (1999) J Neurosci 19, 4421-7.
- 6. lijima, 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

WB: Western Blotting

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

β-Amyloid Antibody (#2454) Datasheet Without Images Cell Signaling Technology

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