mAb

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β-Amyloid (1-42) (D3E10) Rabbit

Applications: WB	Reactivity: H	: Sensitivity: Endogenous	<b>MW (kDa):</b> 4	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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliguot the antibody.					
Specificity / Sensiti		$\beta$ -Amyloid (1-42) (D3E10) Rabbit mAb recognizes endogenous levels of total A $\beta$ -42 protein. This antibody may cross-react with A $\beta$ -43 peptide.					
Species predicted t react based on 100 sequence homolog	%	Mouse, Rat, Monkey, Bovine					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human $\beta$ -amyloid (1-42) peptide.					
Background		Amyloid $\beta$ (A $\beta$ ) 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 $\beta$ 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 Refere	2 3 2	<ul> <li>S 1. Selkoe, D.J. (1996) <i>J Biol Chem</i> 271, 18295-8.</li> <li>2. Caporaso, G.L. et al. (1992) <i>Proc Natl Acad Sci USA</i> 89, 3055-9.</li> <li>3. Hung, A.Y. and Selkoe, D.J. (1994) <i>EMBO J</i> 13, 534-42.</li> <li>4. Suzuki, T. et al. (1994) <i>EMBO J</i> 13, 1114-22.</li> <li>5. Ando, K. et al. (1999) <i>J Neurosci</i> 19, 4421-7.</li> <li>6. lijima, K. et al. (2000) <i>J Neurochem</i> 75, 1085-91.</li> </ul>					
Species Reactivity	S	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffe		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	١	WB: Western Blotting					
Cross-Reactivity Ke	x	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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Limited Uses							

β-Amyloid (1-42) (D3E10) Rabbit mAb (#12843) Datasheet Without Images Cell Signaling Technology

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