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β-Amyloid (D54D2) XP[®] Rabbit



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-F	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 5	Source/Isotype: Rabbit IgG	UniProt ID: #P05067	Entrez-Gene Id: 351	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting			1:1000		
	lmı	munoprecipitation			1:50		
	lmi	munofluorescence (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	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 (Aβ antibody detects several isoforms of Aβ, such as Aβ-37, Aβ-38, Aβ-39, Aβ-40, and Aβ-42. This product transgenically expressed human APP in mouse models.							
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human β -amyloid peptide ($A\beta$).					
Background	sevo rele rele be prot dep	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 Refere	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. lijima, K. et al. (2000) <i>J Neurochem</i> 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 IP: Immunoprecipitation 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

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