#14975 Store at -20C

β-Amyloid (pE3 Peptide) (D5N5H) Rabbit mAb	T E	Cell Signaling	
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-F	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 4	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P05067	Entrez-Gene Id: 351
Product Usage Information		Application Dilution			Dilution	
		estern Blotting munohistochemistry	(Paraffin)			L:1000
		nmunofluorescence (	. ,			L:200
-		·	,			
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
	For	r a carrier free (BSA	and azide free) ve	ersion of this product se	e product #76486.	
Specificity / Sensit		β-Amyloid (pE3 Peptide) (D5N5H) Rabbit mAb recognizes recombinant pE3 form of β-amyloid peptides. This antibody does not cross-react with the non-pyroglutamate (E3) form of β-amyloid peptides.				
Source / Purification		Monoclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of $\beta$ -amyloid (pE3) peptide.				
Background	sev rela be pro dep Thr Aβ the (7,ξ res (10	veral isoforms (1). The eased by a two-step eased A $\beta$ fragments phosphorylated at se- tein (2-5). Phosphory pendent kinase is cel r668 exists in adult ra peptides can be furth enzyme glutaminyl of 8). A $\beta$ (pE3) peptides istance to peptidase	e amino acid sec proteolytic cleava form the main col everal sites, which ylation at Thr668 Il-cycle dependen at brain and corre her modified by a cyclase, which cas exhibit increase -mediated degrac ng Aβ (pE3) peptin	s a 100-140 kDa transm juence of APP contains ige (1). The extracellula mponents of amyloid pla n may affect the proteol (a position correspondin t and peaks during G2// lates with cultured neur mino-terminal truncation talyzes the formation of d stability relative to nor lation (9) and a higher p des may be plaque-spec	the amyloid domain, w r deposition and accu aques in Alzheimer's c ytic processing and se ng to the APP695 isofe M phase (4). APP pho onal differentiation (5, n that exposes a free an amino-terminal py n-modified peptides du propensity to form β-sh	which can be mulation of the disease (1). APP can ecretion of this form) by cyclin- osphorylated at 6). glutamate residue to rroglutamate (pE) ue to an enhanced heets and aggregate
Background Refer	2. ( 3. + 4. 5 5. / 6.   7. J 8. 5 9. 5 10. +	Selkoe, D.J. (1996) J Caporaso, G.L. et al. Hung, A.Y. and Selko Suzuki, T. et al. (1994 Ando, K. et al. (1999) ijima, K. et al. (2000) Jawhar, S. et al. (201 Saido, T.C. et al. (199 Saido, T.C. et al. (199 He, W. and Barrow, C Demattos, R.B. et al.	(1992) Proc Natl e, D.J. (1994) EM A) EMBO J 13, 11 J Neurosci 19, 4 J Neurochem 75 1) J Biol Chem 2 5) Neuron 14, 45 06) Neurosci Lett C.J. (1999) Bioche	Acad Sci USA 89, 3055 IBO J 13, 534-42. 14-22. 421-7. 5, 1085-91. 86, 38825-32. 57-66. 215, 173-6. emistry 38, 10871-7.	5-9.	
Species Reactivity	Spe	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).
Western Blot Buffe		ORTANT: For wester % Tween® 20 at 4°C		membrane with diluted ng, overnight.	primary antibody in 5 <sup>r</sup>	% w/v BSA, 1X TBS,
Applications Key	WB	3: Western Blotting II	HC-P: Immunohis	tochemistry (Paraffin) <b>II</b>	F-F: Immunofluoresce	ence (Frozen)

4/18/24, 10:35 AM	β-Amyloid (pE3 Peptide) (D5N5H) Rabbit mAb (#14975) Datasheet Without Images Cell Signaling Technol
Cross-Reactivity k	<ul> <li>Key</li> <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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