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Patents

Phospho-α-Synuclein (Ser129) (D1R1R) Rabbit mAb



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Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P37840	Entrez-Gene Id: 6622	
Product Usage Information	Aŗ	pplication			Dilution		
	We	estern Blotting		1:1000			
	Im	munoprecipitation			1:50		
	Im	munofluorescence (Frozen)	1:400 - 1:1600			
Storage		•	***	7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than	
	For	For a carrier-free (BSA and azide free) version of this product see product #87281.					
Specificity / Sensi	only	Phospho- α -Synuclein (Ser129) (D1R1R) Rabbit mAb recognizes endogenous levels of α -Synuclein protein only when phosphorylated at Ser129. Specificity of nuclear staining is unclear but consistent with previous publications (4).					
Source / Purification	• • • •	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser129 of human α -Synuclein protein.					
Background	mai	α -Synuclein is a protein of 140-amino acids expressed abundantly in the brain. α -Synuclein is also the main component of pathogenic Lewy bodies and Lewy neurites. Research studies have shown that mutations of the α -Synuclein gene are linked to Parkinson's disease (1).					
	cau occ site	Various research studies have shown that phosphorylation of α -Synuclein at Ser129 is a highly toxic event causing degeneration of dopaminergic neurons associated with Parkinson's disease. This is proposed to occur through increased misfolding, aggregation, and accumulation of α -Synuclein phosphorylated at this site (2). GSK-3 β is one of several kinases that has been reported to phosphorylate α -Synuclein at Ser129 (3).					
Background References 1. Goldberg, M.S. and Lansbury Jr., P.T. (2000) Nat. Cell Biol. 2, 115-119. 2. Oueslati, A. et al. (2010) Prog Brain Res 183, 115-45. 3. Credle, J.J. et al. (2015) Cell Death Differ 22, 838-51. 4. Yu, S. et al. (2007) Neuroscience 145, 539-55.							

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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