Revision 7			
Phospho-α-Synuclein (Ser129) (D1R1R) Rabbit mAb	Се	Cell Signaling	
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Applications: W, IP, IF-F	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P37840	Entrez-Gene Id 6622		
Product Usage	•	Application			Dilution			
Information	Western Blotting			1:1000				
	Immunoprecipitation			1:50				
		Immunofluorescence	(Frozen)		1:400 - 1:160	0		
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 aliquot the antibody.						
		For a carrier-free (BSA and azide free) version of this product see product #87281.						
Specificity/Sen	ficity/Sensitivity 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 consist with previous publications (4).							
Source / Purifie	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser129 of human α-Synuclein protein.						
Background		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).						
		event causing degene proposed to occur th	eration of dopamine ough increased mis s site (2). GSK-3β is	t phosphorylation of α-S ergic neurons associated sfolding, aggregation, a one of several kinases tl	with Parkinson's d nd accumulation of	isease. This is α-Synuclein		
Background Re	eferences	1. Goldberg, M.S. and Lansbury Jr., P.T. (2000) <i>Nat. Cell Biol.</i> 2, 115-119. 2. Oueslati, A. et al. (2010) <i>Prog Brain Res</i> 183, 115-45. 3. Credle, J.J. et al. (2015) <i>Cell Death Differ</i> 22, 838-51. 4. Yu, S. et al. (2007) <i>Neuroscience</i> 145, 539-55.						
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting I	<b>P:</b> Immunoprecipita	ation IF-F: Immunofluor	escence (Frozen)			
Cross-Reactivit	ty Key	H: Human M: Mouse	R: Rat					
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