Revisi	on 2		
Store at -20C	PhosphoPlus [®] α-Synuclein (Ser129) Antibody Duet	C T	ell Signaling
		Orders:	877-616-CELL (2355) orders@cellsignal.com
		Support:	877-678-TECH (8324)
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UniProt ID: Entrez-Gene Id: #P37840, #055042 6622, 20617						
	Product #	Quantity	Mol. Wt	Isotype/Source		
er129) (D1R1R) Rabbit mAb	23706	100 µl	18 kDa	Rabbit IgG		
bit mAb	4179	100 µl	18 kDa	Rabbit IgG		
)	6622, 20617 :r129) (D1R1R) Rabbit mAb bit mAb	6622, 20617 Product # 23706 bit mAb 4179	6622, 20617 Product # Quantity r129) (D1R1R) Rabbit mAb 23706 100 μl bit mAb 4179 100 μl	6622, 20617 Product # Quantity Mol. Wt r129) (D1R1R) Rabbit mAb 23706 100 μl 18 kDa bit mAb 4179 100 μl 18 kDa		

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	PhosphoPlus [®] Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.
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.
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).
	Various research studies have shown that phosphorylation of α-Synuclein at Ser129 is a highly toxic event that causes degeneration of dopaminergic neurons, which are 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-3β 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) <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.
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