

Catalog No. TIP-SN-P09

Anti α -Synuclein (131-140)

BACKGROUND

Alpha-Synuclein, a 140-amino acid protein abundantly expressed in presynaptic terminals, is known as a component of intraneuronal or glial inclusions observed in cases of Parkinson's disease (PD), Dementia with Lewy bodies (DLB) and Multiple system atrophy (MSA). Alpha-Synuclein is a natively unfolded protein, however, fibrillization or conformational change of Alpha-synuclein is central in the pathogenesis of Alpha-synucleinopathies. The amino-terminal region of Alpha-synuclein consists of seven imperfect repeats, each 11 amino acids in length, with the consensus sequence KTKEGV. The repeats partially overlap with a hydrophobic region (amino acids 61-95). The carboxy-terminal region (amino acids 96-140) is negatively charged. These antibodies are powerful tools for biochemical and IHC analyses of neurodegenerative diseases and for evaluation of conformational changes of Alpha-synuclein.

Product type	Primary antibody
Immunogen	CEGYQDYEEPA (α -syn131-140)
Raised in	Rabbit (New Zealand White)
Source	Anti-serum
Purification	-
Form	Liquid. Anti-serum with 0.1% NaN ₃ as a preservative.
Concentration	-
Volume	50 μ L
Label	Unlabeled
Specificity	α -Syn
Cross reactivity	Human, Mouse
Storage	Store below -20°C. (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

Application notes	•ELISA : 1/1000-1/2000
Recommended dilutions	•Western Blot : 1/1000 •Immunohistochemistry :1/1000-1/2000

Other applications have not been tested. Optimal dilutions/ concentrations should be determined by the end user.

References	1)Masami Masuda, et al. Inhibition of α -synuclein fibril assembly by small molecules: Analysis using epitope-specific antibodies. FEBS Letters (2009) 583, 787-791. PMID 19183551 2) Motokuni Yonetani, et al. Conversion of wild-type alpha-synuclein into mutant-type fibrils and its propagation in the presence of A30P mutant. Journal of Biological Chemistry (2009) 284, 7940-7950. PMID 19164293
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RELATED PRODUCTS:

Product Name	Quantity	Maker	Cat#
Anti α -Synuclein (1-10)	50 uL	CAC	TIP-SN-P01
Anti α -Synuclein (11-20)	50 uL	CAC	TIP-SN-P02
Anti α -Synuclein (21-30)	50 uL	CAC	TIP-SN-P03
Anti α -Synuclein (31-40)	50 uL	CAC	TIP-SN-P04
Anti α -Synuclein (41-50)	50 uL	CAC	TIP-SN-P05
Anti α -Synuclein (51-60)	50 uL	CAC	TIP-SN-P06
Anti α -Synuclein (61-70)	50 uL	CAC	TIP-SN-P07
Anti α -Synuclein (75-91)	50 uL	CAC	TIP-SN-P08
Anti α -Synuclein (9 Antibodies Set)	9*10 uL	CAC	TIP-SN-SET