POLYCLONAL ANTIBODY

For research use only, Not for diagnostic use

Catalog No. TIP-SN-P01

Anti α-Synuclein (1-10)

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	MDVFMKGLSKC (α-syn1-10)
Raised in	Rabbit (New Zealand White)
Source	Anti-serum
Purification	-
Form	Liquid. Anti-serum with 0.1% NaN3 as a preservative.
Concentration	-
Volume	50 uL
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 **Recommended dilutions**	・ELISA : 1/500−1/2000 ・Western Blot : 1/1000 ・Immunohistochemistry :1/500−1/2000 Other applications have not been tested. Optimal dilutions/ concentrations should be determined by the end user.
References	1)Masami Masuda, et al. Inhibition of a-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 (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 (131-140)	50 uL	CAC	TIP-SN-P09
Anti α-Synuclein (9 Antibodies Set)	9*10 uL	CAC	TIP-SN-SET