



COSMO BIO Co., LTD.

Inspiration for Life Science

**POLYCLONAL ANTIBODY**

*For research use only, Not for diagnostic use*

**Catalog No. TIP-SN-P03**

# Anti $\alpha$ -Synuclein (21-30)

## 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.

<b>Product type</b>	Primary antibody
<b>Immunogen</b>	KTKQGVAEAAAC ( $\alpha$ -syn 21-30)
<b>Raised in</b>	Rabbit (New Zealand White)
<b>Source</b>	Anti-serum
<b>Purification</b>	-
<b>Form</b>	Liquid. Anti-serum with 0.1% NaN <sub>3</sub> as a preservative.
<b>Concentration</b>	-
<b>Volume</b>	50 $\mu$ L
<b>Label</b>	Unlabeled
<b>Specificity</b>	$\alpha$ -Syn
<b>Cross reactivity</b>	Human, Mouse
<b>Storage</b>	Store below -20°C. (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

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<b>Application notes</b>	•ELISA : 1/500–1/2000
<b>Recommended dilutions</b>	•Western Blot : 1/500–1/1000 •Immunohistochemistry :1/500–1/2000

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

<b>References</b>	1)Masami Masuda, et al. Inhibition of $\alpha$ -synuclein fibril assembly by small molecules: Analysis using epitope-specific antibodies. FEBS Letters (2009) 583, 787-791. PMID 19183551
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**RELATED PRODUCTS:**

Product Name	Quantity	Maker	Cat#
Anti $\alpha$ -Synuclein (1-10)	50 uL	CAC	TIP-SN-P01
Anti $\alpha$ -Synuclein (11-20)	50 uL	CAC	TIP-SN-P02
Anti $\alpha$ -Synuclein (31-40)	50 uL	CAC	TIP-SN-P04
Anti $\alpha$ -Synuclein (41-50)	50 uL	CAC	TIP-SN-P05
Anti $\alpha$ -Synuclein (51-60)	50 uL	CAC	TIP-SN-P06
Anti $\alpha$ -Synuclein (61-70)	50 uL	CAC	TIP-SN-P07
Anti $\alpha$ -Synuclein (75-91)	50 uL	CAC	TIP-SN-P08
Anti $\alpha$ -Synuclein (131-140)	50 uL	CAC	TIP-SN-P09
Anti $\alpha$ -Synuclein (9 Antibodies Set)	9*10 uL	CAC	TIP-SN-SET

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