



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. TIP-SN-SET

Anti α -Synuclein (Set of 9 Antibodies)

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.

Components (each vial contains 10uL of antiserum)

| Cat Number | Antigen | ELISA | WB | IHC |
|------------|---|---------------|---------------|---------------|
| TIP-SN-P01 | MDVFMKGLSKC (α -syn 1-10) | 1/500-1/2000 | 1/1000 | 1/500-1/2000 |
| TIP-SN-P02 | AKEGVVAAAEK (α -syn 11-20) | 1/500-1/2000 | 1/500-1/1000 | 1/500-1/2000 |
| TIP-SN-P03 | KTKQGVAAEAAK (α -syn 21-30) | 1/500-1/2000 | 1/500-1/1000 | 1/500-1/2000 |
| TIP-SN-P04 | GKTKEGVLYVC (α -syn 31-40) | 1/1000-1/2000 | 1/1000-1/3000 | 1/1000-1/2000 |
| TIP-SN-P05 | GSKTKEGVVHC (α -syn 41-50) | 1/500-1/2000 | 1/500-1/1000 | 1/500-1/2000 |
| TIP-SN-P06 | GVATVAEKTKC (α -syn 51-60) | 1/500-1/2000 | 1/500-1/1000 | 1/500-1/2000 |
| TIP-SN-P07 | EQVTNVGGAVC (α -syn 61-70) | 1/500-1/2000 | 1/500-1/1000 | 1/500-1/2000 |
| TIP-SN-P08 | CTAVAQKTVEGAGSIAAA (α -syn 75-91) | 1/500-1/2000 | 1/500-1/1000 | 1/500-1/2000 |
| TIP-SN-P09 | CEGYQDYEPAA (α -syn 131-140) | 1/1000-1/2000 | 1/1000 | 1/1000-1/2000 |

Storage Store below -20°C (below -70°C for prolonged storage).
Aliquot to avoid cycles of freeze/thaw.

- References**
- 1) Masami Masuda, et al. Inhibition of α -synuclein fibril assembly by small molecules: A FEBS Letters (2009) 583, 787-791. PMID 19183551
 - 2) Motokuni Yonetani, et al. Conversion of wild-type alpha-synuclein into mutant-type fib A30P mutant. Journal of Biological Chemistry (2009) 284, 7940-7950. PMID 19164293

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