

## Anti $\alpha$ -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.

|                         |  |
|-------------------------|--|
| <b>Product type</b>     | Primary antibody   |
| <b>Immunogen</b>        | CEGYQDYEEPA ( $\alpha$ -syn131-140)  |
| <b>Raised in</b>        | Rabbit (New Zealand White)   |
| <b>Source</b>           | Anti-serum   |
| <b>Purification</b>     | -  |
| <b>Form</b>             | Liquid. Anti-serum   |
| <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).<br>Aliquot to avoid cycles of freeze/thaw. |

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

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<br>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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For research use only, Not for diagnostic use.



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**RELATED PRODUCTS:**

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