

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)

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

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 α -synuclein into mutant-type fibrils by A30P mutant. Journal of Biological Chemistry (2009) 284, 7940-7950. PMID 19164293

Storage

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

For research use only, Not for diagnostic use.



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