Meridian Life Science, Inc.
Innovative Solutions. Trusted Partner.®

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CERTIFICATE OF ANALYSIS

Important Note: **Centrifuge before opening to ensure complete recovery of vial contents.**

Catalog #: Q06604M **Lot #:** 9E12920

Description: MAb to Synuclein Alpha
Monoclonal Antibody to Human Synuclein alpha.

Specificity: Reacts well with alpha-synuclein in Western blots and frozen and formalin-fixed/paraffin-embedded tissue sections. Recognizes human alpha-synuclein. Synuclein-alpha is the major component of Lewy bodies and Lewy neuritis in sporadic PD. dementia with Lewy Bodies and Lewy Body variant of AD. Lewy bodies are composed of truncated and phosphorylated intermediate neurofilament proteins, alpha synuclein, ubiquitin and associated enzymes. The synuclein phosphoproteins (15-20 kDa) are small highly conserved proteins in vertebrates. The synuclein family includes alpha and beta synucleins and loosely related gamma-synuclein and synoretin. The expression is abundant in neurons and typically localized at presynaptic terminals.

Host Animal: Mouse **Isotype:** IgG_1

Source: Tissue Culture Supernatant

Immunogen: Purified *E. coli* produced human alpha-synuclein.

Format: Purified, Liquid

Purification: Protein A Chromatography

Concentration: 1 mg/mL

Buffer: Phosphate Buffered Saline

Preservative: None

Applications: Western/Dot Blot (1:100 – 1:10,000).
ELISA
Immunohistochemistry: (1:100 – 1:1,000) frozen and formalin-fixed paraffin-embedded tissues (no formic acid, enzyme or HIER required).
Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Store at 2 to 8°C.

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Safety Note(s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.

References: The references listed below are for research purposes only:

1. Lucking, C.B., et al., (2000), "Alpha-synuclein and Parkinson's disease", Cell Mol. Life Sci., **57**(13-14): 1894–1908.
2. Trojanowski, J.Q., et al., (2000), "Fatal attractions of proteins. A comprehensive hypothetical mechanism underlying Alzheimer's disease and other neurodegenerative disorders", Ann. N.Y. Acad. Sci., **924**: 62–67.
3. Conway, K.A., et al., (2000), "Accelerated oligomerization by Parkinson's disease linked alpha-synuclein mutants", Ann. N.Y. Acad. Sci., **920**: 42–45.
4. Kahle, P.J., et al., (2000), "Physiology and pathophysiology of alpha-synuclein. Cell culture and transgenic animal models based on a Parkinson's disease-associated protein", Ann N.Y. Acad. Sci., **920**:33–41.
5. Polymeropoulos, M.H., (2000), "Genetics of Parkinson's disease", Ann. N.Y. Acad. Sci., **920**: 28–32.
6. Spillantini, M.G., et al., (2000), "The alpha-synucleinopathies: Parkinson's disease, dementia with Lewy bodies and multiple system atrophy"", Ann. N.Y. Acad. Sci., **920**: 16–27.
7. McKeith, I.G., et al., (2000), "Clinical Lewy body syndromes", Ann. N.Y. Academy Science, 920: 1–8.
8. Braak, H., et al., (2000), "Pathoanatomy of Parkinson's disease", J. Neurology, **247** Suppl., 2: II3–10.
9. Duda, J.E., et al., (2000), "Neuropathology of synuclein aggregates", J. Neuroscience Res., **61**(2): 121–127.
10. Munoz, D.G., (1999), "Stains for the differential diagnosis of degenerative dementias", Biotech. Histochem., **74**(6): 311–320.
11. Schulz, J.B., et al., (1999), "Molecular pathogenesis of movement disorders: are protein aggregates a common link in neuronal degeneration?", Curr. Opin. Neurol., **12**(4): 433–439.
12. Hashimoto, M., et al., (1999),"Alpha-synuclein in Lewy body disease and Alzheimer's disease", Brain Pathol., **9**(4): 707–720.
13. Clayton, D.F., et al., (1999), "Synucleins in synaptic plasticity and neurodegenerative disorders", J. Neurosci. Res., **59**(1): 120–129.

Bianca Gale

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