

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human α -Synuclein in direct ELISAs and human, mouse and rat α -Synuclein in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 913611
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human α -Synuclein Met1-Ala140 Accession # P37840
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 μ g/mL	See Below
Immunohistochemistry	8-25 μ g/mL	See Below

DATA

<p>Western Blot</p>	<p>Detection of Human, Mouse, and Rat α-Synuclein by Western Blot. Western blot shows lysates of human brain (cerebellum) tissue, mouse brain (cerebellum) tissue, and rat brain (cerebellum) tissue. PVDF membrane was probed with 2 μg/mL of Mouse Anti-Human/Mouse/Rat α-Synuclein Monoclonal Antibody (Catalog # MAB13381) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for α-Synuclein at approximately 17 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p> <p>α-Synuclein in Human Brain. α-Synuclein was detected in immersion fixed paraffin-embedded sections of human brain (substantia nigra) using Mouse Anti-Human/Mouse/Rat α-Synuclein Monoclonal Antibody (Catalog # MAB13381) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to synaptic varicosities. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

α -Synuclein (SNCA) is a cytoplasmic protein that is predominantly expressed in the central nervous system. It is a minor protein found in amyloid deposition that is a hallmark of Alzheimer's disease. Defects in SNCA are associated with familial Parkinson's disease.