Mouse monoclonal antibody to alpha Synuclein [3H9]

Catalogue No.: M-1402-100
Description: Alpha synuclein is an abundant 140 amino acid neuronal protein, expressed primarily at presynaptic terminals in the central nervous system. FUNCTION: May be involved in the regulation of dopamine release and transport. Soluble protein, normally localized primarily at the presynaptic region of axons, which can form filamentous aggregates that are the major non amyloid component of intracellular inclusions in several neurodegenerative diseases (synucleinopathies). Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase 3 activation. TISSUE SPECIFICITY: Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals. SUBUNIT: Soluble monomer which can form filamentous aggregates. Interacts with UCHL1. Interacts with phospholipase D and histones. SUBCELLULAR LOCATION: Cytoplasm. Membrane. Nucleus. Note=Membrane-bound in dopaminergic neurons. Also found in the nucleus. ALTERNATIVE PRODUCTS: 3 named isoforms produced by alternative splicing. Additional isoforms seem to exist.

Batch No.: See product label
Unit size: 100 µl
Antigen: Recombinant full length human alpha synuclein expressed and purified from E. coli
Antibody Type: Monoclonal
Isotype: IgG1
Clone: 3H9
Other Names: Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; NACP
Accession: P37840 SYUA_HUMAN;
Produced in: Mouse
Applications: Western Blotting (WB) and Immunocytochemistry (IC). A dilution of 1:1,000 - 1:5,000 is recommended for WB. A dilution of 1:500-1,000 is recommended for IC. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity: The specificity of this antibody has been confirmed by WB. This antibody detects ~15 kDa alpha synuclein protein.
Antibody Against: alpha Synuclein
Cross-reactivity: Human and Rodent. Predicted to react with other mammalian tissue.
Form: Lyophilised with 5% trehalose
Appearance: White powder
Reconstitution: Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
Storage: After reconstitution of lyophilised antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date: 12 months after purchase

FOR RESEARCH USE ONLY
39 Winwood Street • Thebarton • South Australia 5031
Telephone + 61 8 83527711 • Email sales@biosensis.com • www.biosensis.com
Mouse monoclonal antibody to alpha Synuclein [3H9]

Mixed neuron-glial cultures stained with Mouse monoclonal antibody to alpha Synuclein [3H9] M-1402-100 (red) and Chicken polyclonal antibody to MAP2 C-1382-50 (green). The alpha Synuclein antibody stains vesicular structures the perikarya and processes of the neurons in this image.