Sheep antibody to alpha synuclein (116-131): affinity purified

Catalogue No.: S-075-50
Description: Alpha synuclein is an abundant 140 amino acid neuronal protein, expressed primarily at presynaptic terminals in the central nervous system. Alpha synuclein has been associated with several neurodegenerative diseases. A point mutation in the gene coding for the alpha-synuclein protein was the first discovery linking this protein to a rare familial form of Parkinson's disease (PD). Subsequently, other mutations in the alpha-synuclein gene have been identified in familial PD. The aggregated proteinaceous inclusions called Lewy bodies found in PD and cortical Lewy body dementia (LBD) were discovered to be predominantly alpha-synuclein. Aberrant aggregation of alpha-synuclein has been detected in an increasing number of neurodegenerative diseases, collectively known as synucleopathies. Alpha-synuclein exists physiologically in both soluble and membrane-bound states, in unstructured and alpha-helical conformations, respectively. The physiological function of alpha-synuclein appears to require its translocation between these subcellular compartments and interconversion between the 2 conformations. Abnormal processing of alpha-synuclein is predicted to lead to pathological changes in its binding properties and function.

Batch No.: See product label
Unit size: 50 µg
Antigen: A synthetic peptide (CMPVDPDNEAYEMPSEE) of human alpha synuclein protein (aa: 116-131) conjugated to diphtheria toxoid has been used as the immunogen.
Other Names: Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; NACP
Accession: SYUA_HUMAN
Produced in: Sheep
Purity: Affinity purified and dialysed against phosphate buffered saline (PBS). Contains 0.02% sodium azide.
Applications: IHC, WB, ELISA. Recommended to be used at a concentration of 1 µg/ml for immunohistochemistry (Paraffin sections); 0.5 µg/ml for WB and immunoblot. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity: This antiserum specifically detects alpha synuclein.
Cross-reactivity: This antibody is known to react with alpha synuclein of human, mouse, rat and other rodents.
Form: Lyophilised
Reconstitution: Reconstitute in 50 µl of sterile water. Centrifuge to remove any insoluble material.
Storage: After reconstitution keep aliquots at -20° C for a higher stability, and at 4° C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
Expiry Date: 12 months after purchase

FOR RESEARCH USE ONLY
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References:


Immunohistochemical staining (paraffin-embedded tissue) of glial inclusions in white matter from a case of multiple system atrophy using sheep polyclonal to human alpha synuclein, catalogue number S-075-50.