Rabbit antibody to beta synuclein (C-terminal domain): IgG

Catalogue No.: R-1683-500
Description: Beta-synuclein is a soluble cytoplasmic protein associated with synaptic vesicles and a member of the synuclein family. Mutations in alpha-synuclein cause early onset Parkinson's disease. Expression of beta synuclein may modulate alpha-synuclein aggregation found in Parkinson's disease.

Batch No.: See product label
Unit size: 500 µg
Antigen: A synthetic peptide (AQEAAEEPILIEPLME-C) corresponding to human β-synuclein [99-113] in the C-terminal domain conjugated via additional C-terminal Cys to Diphtheria toxoid.
Antibody Type: Polyclonal
Applications: WB and IHC. A dilution of 1:500 to 1:1,000 is recommended for Western blot. β-synuclein is a soluble protein of 134 amino acids and detected with 17 kDa mobility by western blotting. By IHC the antibody detects synaptic sites in human brain formaldehyde-treated frozen tissue. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.

Specificity: Confirmed by WB using soluble mouse and human brain extracts, reactivity for major product diminished by peptide absorption. Does not detect alpha-synuclein as tested with recombinant protein and does not react with Lewy bodies in human Dementia with Lewy Bodies or Parkinson's disease brain tissue sections.
Species Against: Human and mouse β-synuclein are highly conserved, so cross-reactivity with other species is expected.
Form: Lyophilized from PBS, pH 7.4. Contains no preservative.
Reconstitution: Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Storage: Lyophilized at 2-8°C. After reconstitution, store at -20°C in undiluted aliquots for up to 6 months. The antibody may be stored short term at 2-2-8C with an appropriate antibacterial agent. Avoid freeze-thaw cycles.

Expiry Date: 12 months after purchase
References:


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Western Immunoblotting of human b-synuclein protein in human brain homogenate, 10 ug protein per lane. Crude anti-beta-synuclein ab (Catalog Number R-1683-100) used at 1:1000.
Peptide absorption reduced antibody reactivity for expected beta-synuclein band of 17 kDa.