**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 ug  
**Antigen:** A synthetic peptide (AQEAAEPLIEPLME-C) corresponding to human ß-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. -beta-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 ß-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 uL 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 β-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.