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PRODUCT DATASHEET

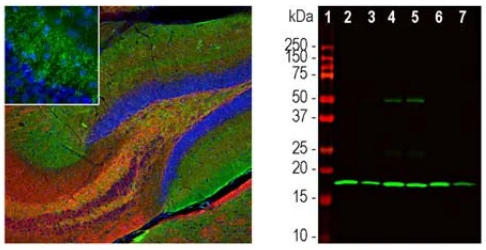
Anti-Beta-Synuclein Antibody

Product Details

Available Variants	100 µg (SKU:M-2106-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	6A10
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:500-1:1000
Species Reactivity	Bovine, Human, Mouse, Pig, Rat
Immunogen	C-terminal peptide of human β-synuclein (EPEGESYEDPPQEEYQEYEPEA) coupled to KLH.
Specificity	Validated by Western blotting and immunohistochemical procedures. Specific for β-synuclein, does not cross-react with α- or γ-synuclein.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°C. After reconstitution divide into aliquots and store at -20°C for long-term storage. Store at 2-8°C short-term (up to 4 weeks). Avoid repetitive freeze/thaw cycles.
UniProt ID	Q16143 UniProt Summary: Non-amyloid component of senile plaques found in

	Alzheimer disease. Could act as a regulator of SNCA aggregation process. Protects neurons from staurosporine and 6-hydroxy dopamine (6OHDA)-stimulated caspase activation in a p53/TP53-dependent manner. Contributes to restore the SNCA anti-apoptotic function abolished by 6OHDA. Not found in the Lewy bodies associated with Parkinson disease.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	6620

Product Images



Left: Analysis of beta-synuclein expression in mouse hippocampus section by **Immunohistochemistry**. Beta-synuclein (green) was detected with mouse antibody to beta-synuclein (1:500), and sections co-stained with a rabbit antibody to neurofilament light (NF-L, C-terminal, red). Blue: Hoechst nuclear stain. *IHC Method*: Following transcardial perfusion of mouse with 4% paraformaldehyde, brain was post-fixed for 24 hours, cut to 45 µm, and free-floating sections were stained with above antibodies. The beta-synuclein antibody detects protein concentrated in synaptic regions, while the NF-L antibody labels dendrites and axons of neuronal cells. **Right:** Western blot analysis of tissue homogenates using mouse antibody to beta-synuclein (green, 1:1,000). Lane 1: molecular weight marker; Lane 2: rat cortex; Lane 3: rat cerebellum; Lane 4: mouse cortex; Lane 5: mouse cerebellum; Lane 6: cow cortex; Lane 7: cow cerebellum. A strong band at about 17 kDa corresponds to beta-synuclein protein.

Created on 19. November 2026 | All information without guarantee