

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human β -Synuclein in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human α -Synuclein is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 516505
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human β -Synuclein Gly47-Glu120 Accession # Q16143
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

β -Synuclein is a 19 kDa, 134 amino acid (aa) cytoplasmic phosphoprotein that is a member of a family of small, highly conserved proteins, including synucleins alpha, beta, and gamma (synoretin), localized predominantly in presynaptic nerve terminals in the brain. β -Synuclein associates with α -Synuclein, preventing it from aggregating. Abnormal α -Synuclein aggregates form filamentous inclusions (Lewy bodies) in neurodegenerative diseases including Parkinson's disease. Within the region used as an immunogen, human SNCB shares 99% aa identity with mouse and rat β -Synuclein.

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