

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α -Synuclein in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1060506
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived human alpha-Synuclein Met1-Ala140 Accession # P37840
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Immunocytochemistry	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

α -Synuclein is member of a family of small soluble proteins that include also β -, and γ -Synuclein. It is predominantly expressed in neurons of the central nervous system in the presynaptic region of nerve terminals, where it cycles between a free, partially unfolded and a helical, membrane-bound form. α -Synuclein can self-aggregate *in vivo* and *in vitro*, forming various oligomeric species and fibrillar and amorphous aggregates. The fibrils and amyloid forms of α -Synuclein are major components of Lewy bodies and Lewy neurites and have been linked to the pathogenesis of Parkinson's Disease, Parkinson's Disease Dementia, and dementia with Lewy bodies. α -Synuclein aggregates can be also found associated with amyloid plaques in Alzheimer's Disease.

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