

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human $\gamma$ -Synuclein in direct ELISAs and Western blots.                                                                                                                                                                                                       |
| <b>Source</b>             | Recombinant Monoclonal Mouse IgG <sub>1</sub> Clone # 514304R                                                                                                                                                                                                               |
| <b>Purification</b>       | Protein A or G purified from cell culture supernatant                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human $\gamma$ -Synuclein<br>Asn47-Glu120<br>Accession # Q6FHG5                                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b>  | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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

## BACKGROUND

$\gamma$ -Synuclein (SNCG), also called persyn or synoretin, is a 17 kDa, 127 amino acid (aa) cytoplasmic phosphoprotein. It is a member of a family of small, highly conserved synuclein proteins localized predominantly in presynaptic nerve terminals in the brain. SNCG and other synucleins are implicated in neurodegenerative diseases including Parkinson's disease. SNCG expression is elevated in many cancers and is implicated in tumor progression, invasion and proliferation. Within the region used as an immunogen, human SNCG shares 82% and 78% aa identity with mouse and rat SNCG, respectively.

## PRODUCT SPECIFIC NOTICES

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