

**DESCRIPTION**

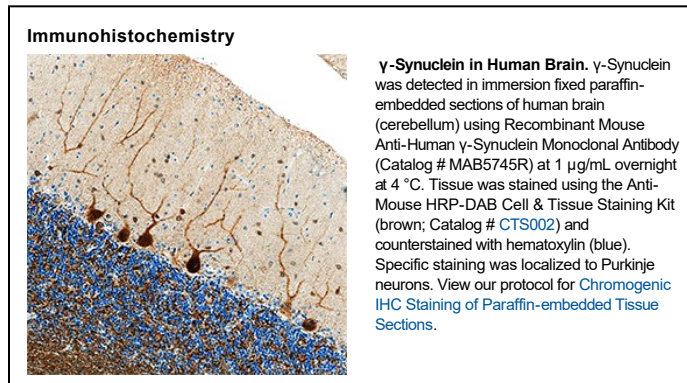
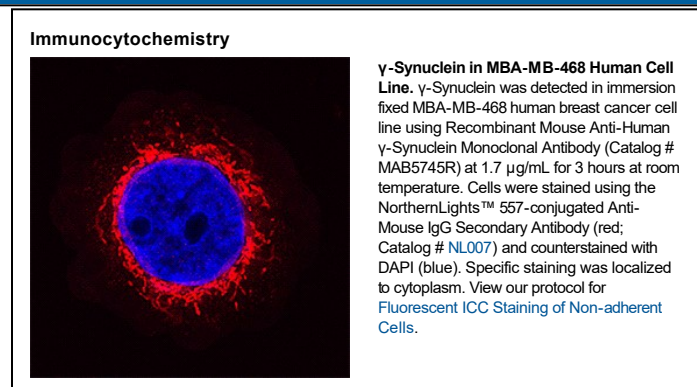
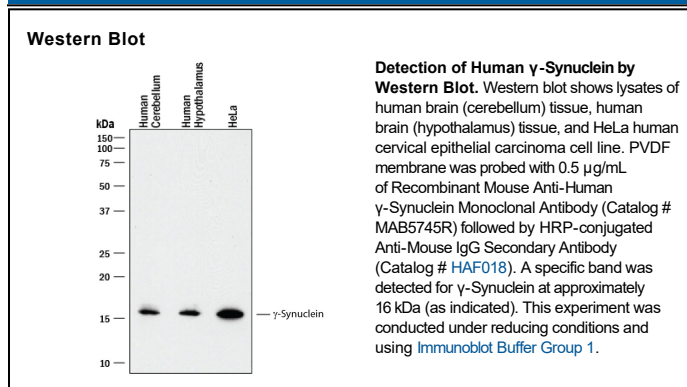
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human $\gamma$ -Synuclein in direct ELISAs and Western blots.
<b>Source</b>	Recombinant Monoclonal Mouse IgG <sub>1</sub> Clone # 514304R
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human $\gamma$ -Synuclein Asn47-Glu120 Accession # Q6FHG5
<b>Formulation</b>	Supplied as a solution in PBS. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

**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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.5 $\mu$ g/mL	See Below
<b>Immunocytochemistry</b>	1-25 $\mu$ g/mL	See Below
<b>Immunohistochemistry</b>	1-25 $\mu$ g/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C, as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after opening.</li> <li>6 months, -20 to -70 °C under sterile conditions after opening.</li> </ul>

## 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.