

DESCRIPTION

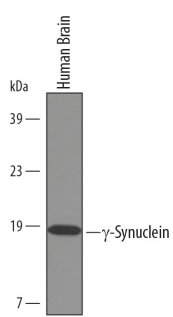
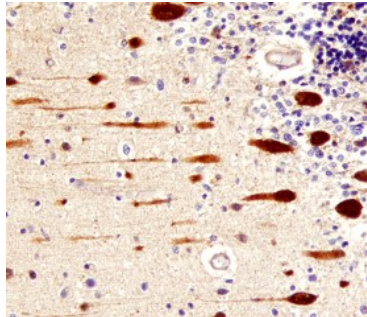
Species Reactivity	Human
Specificity	Detects human γ -Synuclein in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human β -Synuclein is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human γ -Synuclein Asn47-Glu120 Accession # O76070
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ 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
Western Blot	1 μ g/mL	See Below
Immunohistochemistry	5-15 μ g/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human γ-Synuclein by Western Blot. Western blot shows lysates of human brain tissue. PVDF Membrane was probed with 1 μg/mL of Human γ-Synuclein Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5745) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for γ-Synuclein at approximately 17 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 9.</p>	<p>Immunohistochemistry</p>  <p>γ-Synuclein in Human Cerebellum. γ-Synuclein was detected in immersion fixed paraffin-embedded sections of human cerebellum using Human γ-Synuclein Antigen Affinity Purified Polyclonal Antibody (Catalog # AF5745) at 1.7 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. 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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

γ -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.