



p- α -synuclein (Ser 87)-R: sc-19893-R

BACKGROUND

Synucleins are a novel class of GRK substrates. Synucleins (alpha, beta, gamma and synoretin) are 14 kDa proteins that are highly expressed in brain, but are also found in numerous other tissues. The synuclein family members, including α -synuclein, are speculated to be involved in synaptic regulation and neuronal plasticity. α -synuclein, also designated NACP, PD1, PARK1 and SNCA, is localized to neuronal cell bodies and synapses and has been implicated in the pathogenesis of several neuro-degenerative disorders including Alzheimer's and Parkinson's diseases. α -synuclein is phosphorylated on Serine residues Ser 129 and Ser 87. In addition, α -synuclein exists as a 22 kDa glycosylated form. The human α -synuclein gene maps to chromosome 4q21.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNCA (human) mapping to 4q21; Snca (mouse) mapping to 6 B3.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

p- α -synuclein (Ser 87)-R is a rabbit polyclonal antibody raised against a short amino acid sequence containing phosphorylated Ser 87 of α -synuclein of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-19893 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

p- α -synuclein (Ser 87)-R is recommended for detection of Ser 87 phosphorylated α -synuclein of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for α -synuclein siRNA (h): sc-29619.

Molecular Weight of p- α -synuclein: 14 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent) and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.