

p- α -synuclein (Tyr 136): sc-293093

BACKGROUND

Synucleins are a novel class of GRK substrates. Synucleins (α , β , γ and synoretin) 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 in a glycosylated form. The human α -synuclein gene maps to chromosome 4q21.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNCA (human) mapping to 4q22.1; Snca (mouse) mapping to 6 B3.

SOURCE

p- α -synuclein (Tyr 136) is a rabbit polyclonal antibody raised against a short amino acid sequence containing phosphorylated Tyr 136 of α -synuclein of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

p- α -synuclein (Tyr 136) is recommended for detection of Tyr 136 phosphorylated α -synuclein of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for α -synuclein siRNA (h): sc-29619, α -synuclein siRNA (m): sc-42286, α -synuclein shRNA Plasmid (h): sc-29619-SH, α -synuclein shRNA Plasmid (m): sc-42286-SH, α -synuclein shRNA (h) Lentiviral Particles: sc-29619-V and α -synuclein shRNA (m) Lentiviral Particles: sc-42286-V.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.