**BACKGROUND**

Striatin, SG2NA, and zinedin, the three mammalian members of the striatin family, are multimodular, WD-repeat and calmodulin-binding proteins. Zinedin and SG2NA share with striatin identical protein-protein interaction domains and the same overall domain structure. All three proteins are both cytosolic and membrane-bound and bind calmodulin in the presence of calcium. Striatin is a neuronal, intracellular protein strictly expressed in the somatodendritic compartment, including spines, subsets of neurons, and is considered as a marker of neuronal polarity. Down-regulation of striatin, which is expressed in a few subsets of neurons, impairs the growth of dendrites as well as rat locomotor activity. Zinedin is mainly expressed in the central nervous system, whereas SG2NA is mainly expressed in the brain and muscle.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: STRN4 (human) mapping to 19q13.32; Strn4 (mouse) mapping to 7 A2.

**SOURCE**

zinedin (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of zinedin of human origin.

**PRODUCT**

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

Blocking peptide available for competition studies, sc-16861 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

zinedin (C-20) is recommended for detection of zinedin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

zinedin (C-20) is also recommended for detection of zinedin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for zinedin siRNA (h): sc-37851, zinedin siRNA (m): sc-37852, zinedin shRNA Plasmid (h): sc-37651-SH, zinedin shRNA Plasmid (m): sc-37652-SH, zinedin shRNA (h) Lentiviral Particles: sc-37651-V and zinedin shRNA (m) Lentiviral Particles: sc-37652-V.

Molecular Weight of zinedin: 100 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

**STORAGE**

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

**PROTOCOLS**

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