SANTA CRUZ BIOTECHNOLOGY, INC.

Ataxin-10 (H-176): sc-99058

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Spinocerebellar ataxia (SCA) is an autosomal dominant neurodegenerative disorder characterized by ataxia and selective neuronal cell loss. SCA is caused by the expansion of a translated CAG repeat, encoding a polyglutamine tract in SCA gene products, known as ataxins. The ataxin proteins are ubiquitously expressed in nervous tissue, but are primarily detected in cerebellum, brain stem and spinal cord in the central nervous system. Ataxin-10 is a cytoplasmic protein that belongs to the family of armadillo repeat proteins. A loss of Ataxin-10 in primary neuronal cells causes increased apoptosis of cerebellar neurons. Ataxin-10 interacts with p110, an O-Linked β-N-acetylglucosamine transferase, and may be important in the regulation of intracellular glycosylation levels and homeostasis in the brain. Spinocerebellar ataxia type 10 (SCA10) is an autosomal dominant disorder that causes cerebellar ataxia and seizures. SCA10 is caused by an expansion of an ATTCT pentanucleotide repeat in intron 9 of the Ataxin-10 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ATXN10 (human) mapping to 22q13.31; Atxn10 (mouse) mapping to 15 E2.

SOURCE

Ataxin-10 (H-176) is a rabbit polyclonal antibody raised against amino acids 15-190 mapping near the N-terminus of Ataxin-10 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.

APPLICATIONS

Ataxin-10 (H-176) is recommended for detection of Ataxin-10 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).

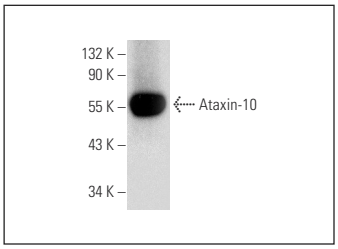
Ataxin-10 (H-176) is also recommended for detection of Ataxin-10 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Ataxin-10 siRNA (h): sc-60218, Ataxin-10 siRNA (m): sc-60219, Ataxin-10 shRNA Plasmid (h): sc-60218-SH, Ataxin-10 shRNA Plasmid (m): sc-60219-SH, Ataxin-10 shRNA (h) Lentiviral Particles: sc-60218-V and Ataxin-10 shRNA (m) Lentiviral Particles: sc-60219-V.

Molecular Weight of Ataxin-10: 55 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or mouse adrenal gland extract: sc-364237.

DATA



Ataxin-10 (H-176): sc-99058. Western blot analysis of Ataxin-10 expression in mouse adrenal tissue extract.

STORAGE

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

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.