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# Ataxin-1 (m): 293T Lysate: sc-118599

## BACKGROUND

Ataxin-1, also designated spinocerebellar ataxia type 1 protein (Sca-1), is differentially expressed and localizes to both the cytoplasm and the nucleus. Mutations in Ataxin-1 are associated with the onset of the autosomal dominant neurodegenerative disorder spinocerebellar ataxia type 1 (SCA-1), which is characterized by progressive neuronal loss in the cerebellum, muscle wasting and ataxia. In Purkinje cells, where SCA-1 is predominantly observed, Ataxin-1 has been shown to directly associate with the Purkinje-enriched, leucine-rich, acidic nuclear protein (LANP) and the nuclear matrix-associated protein, promyelocytic leukemia protein (PML). In SCA-1, Ataxin-1 is mutated to encode a polyglutamine protein that forms nuclear aggregates, which interact significantly stronger with LANP and contribute to the pathogenesis of SCA-1.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Sca1 (mouse) mapping to 13 A5.

## PRODUCT

Ataxin-1 (m): 293T Lysate represents a lysate of mouse Ataxin-1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## APPLICATIONS

Ataxin-1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Ataxin-1 antibodies. Recommended use: 10-20 µl per lane.

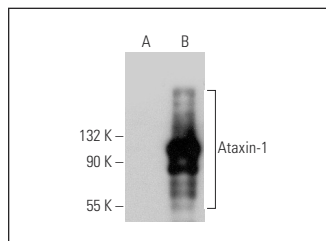
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Ataxin-1 (E-4): sc-514953 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Ataxin-1 expression in Ataxin-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



Ataxin-1 (E-4): sc-514953. Western blot analysis of Ataxin-1 expression in non-transfected: sc-117752 (A) and mouse Ataxin-1 transfected: sc-118599 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.