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ATXN1

Reactivity: Human

Tested applications:WB IF

Recommended Dilution:WB 1:200 - 1:500 IF 1:20 - 1:50

Calculated MW:87kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human ATXN1

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

Ataxin-1; Spinocerebellar ataxia type 1 protein; ATXN1; ATX1; SCA1

Catalog #:A0506

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:6310

Isotype: IgG

Swiss Prot:P54253

Purity: Affinity purification

For research use only.

Background:

Spinocerebellar ataxia 1 (SCA1), an autosomal dominant neurodegenerative disorder, is characterized by slurred speech, loss of limb coordination, and gait abnormalities resulting from the degeneration of cerebellar Purkinje cells and of a subset of brainstem neurons (1). Individuals with SCA1 have a highly polymorphic CAG repeat expansion encoding a polyglutamine tract in ataxin-1 (2). Akt phosphorylates ataxin-1 at Ser776, which regulates an association with 14-3-3. This interaction increases ataxin-1 stabilization and accumulation resulting in enhanced neurodegeneration (3). In addition, HSP70 controls the effect that phosphorylation has on ataxin-1 stability (4).

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