



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C  
#2177

## Ataxin-1 Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 105	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P54253	<b>Entrez-Gene Id:</b> 6310
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

Ataxin-1 Antibody detects endogenous levels of total ataxin-1 protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human ataxin-1. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

Spinocerebellar ataxia type 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 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).

### Background References

1. Zoghbi, H.Y. and Orr, H.T. (2000) *Annu Rev Neurosci* 23, 217-47.
2. Orr, H.T. et al. (1993) *Nat Genet* 4, 221-6.
3. Chen, H.K. et al. (2003) *Cell* 113, 457-68.
4. Jorgensen, N.D. et al. (2007) *J Neurochem* 102, 2040-8.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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