

#2177 Store at -20C

Ataxin-1 Antibody



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

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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB | H M R | Endogenous | 105 | Rabbit | #P54253 | 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 | <ol style="list-style-type: none"> 1. Zoghbi, H.Y. and Orr, H.T. (2000) <i>Annu Rev Neurosci</i> 23, 217-47. 2. Orr, H.T. et al. (1993) <i>Nat Genet</i> 4, 221-6. 3. Chen, H.K. et al. (2003) <i>Cell</i> 113, 457-68. 4. Jorgensen, N.D. et al. (2007) <i>J Neurochem</i> 102, 2040-8. | |

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| 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 | WB: Western Blotting |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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