



BMA BIOMEDICALS

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Monoclonal Antibody To Human Ataxin-3

Machado-Joseph disease protein 1; Spinocerebellar ataxia type 3 protein

Monoclonal antibody SCA-1H9 can be used to study wild type ataxin-3 and the mutant form with polyglutamine expansion found in patients affected with spinocerebellar ataxin type 3/Machado-Joseph disease (SCA3/MJD). In analysis of human tissues by Western Blot, antibody SCA-1H9 revealed several isoforms of ataxin-3 (presumably generated by alternative splicing, Trottier et al. 1998). SCA-1H9 antibody detected polyglutamine aggregate (or nuclear inclusions) by immunohistochemistry on SCA-3/MJD brain sections (Paulson et al.1997).

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| Product Number: | T-1427 (Lot 01PO1209) |
| Clone: | SCA-1H9 |
| Host species, isotype: | Mouse IgG1 kappa |
| Quantity: | 100µl |
| Format: | Ascites, liquid Neat ascites with 0.01% Kathon added as a preservative. |
| Stability: | Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing. |
| Applications: | Tested for immunohistochemistry (IHC). Has been reported to work with Western Blots, ELISA, FACS and immunoprecipitation. Approximate working dilution for IHC: Frozen sections: not tested Paraffin sections: 1:50 – 1:200; Proteinase K pretreatment (enhanced cytoplasmic staining) or microwave pretreatment (enhanced nuclear staining) for antigen retrieval is recommended. Secondary antibody: anti mouse IgG1 is recommended. Optimal dilutions should be determined by the end user. Suggested positive control: Ubiquitous tissue specificity. Please see www.bma.ch for protocols and general information. |
| Immunogen: | Human Ataxin-3 F112 to L249 as a fusion protein. |
| Antigen, epitope: | Ataxin-3, epitope was mapped at E214-L233. |

Specificity:**Human:** Ubiquitous expression.**Other:** rat, mouse, monkey

Selected references

Trottier Y, Cancel G, An-Gourfinkel I, Lutz Y, Weber C, Brice A, Hirsch E, Mandel JL.: Heterogeneous intracellular localization and expression of ataxin-3. *Neurobiol Dis.* 1998 Nov;5(5):335-47.

Paulson HL, Perez MK, Trottier Y, Trojanowski JQ, Subramony SH, Das SS, Vig P, Mandel JL, Fischbeck KH, Pittman RN: Intranuclear inclusions of expanded polyglutamine protein in spinocerebellar ataxia type 3. *Neuron.* 1997 Aug;19(2):333-44.

For *in vitro* research only. This product contains Kathon as a preservative.