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HAP1 (h): 293 Lysate: sc-172261

BACKGROUND

HAP1 (huntingtin-associated protein 1) binds to huntingtin. Huntingtin is a protein that contains a polyglutamine region and when the number of glutamine repeats exceeds 35, the gene encodes a version of huntingtin that leads to Huntington's disease (HD). The ability of HAP1 to bind to huntingtin is enhanced by an expanded polyglutamine repeat region. HAP1 shows neuronal localization and moves with huntingtin in nerve fibers. HAP1 is primarily expressed in brain tissue, with greater expression in the olfactory bulb and brain stem. HAP1 in rat has been shown to associate with a number of intracellular organelles. Mouse HAP1 is localized to membrane-bound organelles including large endosomes, tubulovesicular structures, and budding vesicles in neurons.

REFERENCES

1. Group THDCR. 1993. A novel gene containing a trinucleotide repeat that is expanded and unstable on Huntington's disease chromosomes. The Huntington's disease collaborative research group. *Cell* 72: 971-983.
2. Li, X.J., et al. 1995. A huntingtin-associated protein enriched in brain with implications for pathology. *Nature* 378: 398-402.
3. Gusella, J.F., et al. 1996. Huntington's disease. *Cold Spring Harb. Symp. Quant. Biol.* 61: 615-626.
4. Li, X.J., et al. 1996. Huntingtin-associated protein (HAP1): discrete neuronal localization in the brain resemble those of neuronal nitric oxide synthase. *Proc. Natl. Acad. Sci. USA* 93: 4839-4844.
5. Block-Galarza, J., et al. 1997. Fast transport and retrograde movement of huntingtin and HAP 1 in axons. *Neuroreport* 8: 2247-2251.
6. Gutekunst, C.A., et al. 1999. Nuclear and neuropil aggregates in Huntington's disease: relationship to neuropathology. *J. Neurosci.* 19: 2522-2534.
7. Martin, E.J., et al. 1999. Analysis of Huntingtin associated protein 1 in mouse brain and immortalized striatal neurons. *J. Comp. Neurol.* 403: 421-430.

CHROMOSOMAL LOCATION

Genetic locus: HAP1 (human) mapping to 17q21.2.

PRODUCT

HAP1 (h): 293 Lysate represents a lysate of human HAP1 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

HAP1 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive HAP1 antibodies. Recommended use: 10-20 µl per lane.

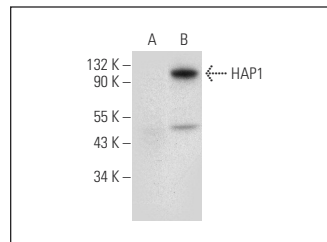
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

HAP1 (A-11): sc-398581 is recommended as a positive control antibody for Western Blot analysis of enhanced human HAP1 expression in HAP1 transfected 293 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



HAP1 (A-11): sc-398581. Western blot analysis of HAP1 expression in non-transfected: sc-110760 (A) and human HAP1 transfected: sc-172261 (B) 293 whole cell lysates.

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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.