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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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VAP-B/C (m): 293T Lysate: sc-127757

BACKGROUND

SNAREs are compartmentally specific, integral membrane proteins that are involved in the fusion of membranes and the transport of intracellular proteins. SNAREs are expressed at high levels in all cell types. VAMP-associated proteins (VAPs) regulate the activity of SNAREs. VAP-B is a 243 amino acid protein, which consists of a conserved N-terminal domain, an α -helical coiled-coil domain and a C-terminal transmembrane domain. VAP-C is a 99 amino acid protein that is a splice variant of VAP-B and retains the N-terminal 70 residues, but lacks both the coiled-coil and the transmembrane domains. Mutations in this "VAP-B/C" gene may result in amyotrophic lateral sclerosis, pinal muscular atrophy, progressive bulbar palsy or primary lateral sclerosis. These are all motor neuron diseases which belong to a group of neurodegenerative disorders involving the upper and/or lower motor neurons.

REFERENCES

1. Skehel, P.A., et al. 1995. A VAMP-binding protein from *Aplysia* required for neurotransmitter release. *Science* 269: 1580-1583.
2. Ravichandran, V., et al. 1996. Identification of a novel syntaxin- and synaptobrevin/SNAP-23, expressed in non-neuronal tissues. *J. Biol. Chem.* 271: 13300-13303.
3. Nishimura, Y., et al. 1999. Molecular cloning and characterization of mammalian homologues of vesicle-associated membrane protein-associated (VAMP-associated) proteins. *Biochem. Biophys. Res. Commun.* 254: 21-26.
4. Zhou, Q.L., et al. 1999. Velvet antler polypeptides promoted proliferation of chondrocytes and osteoblast precursors and fracture healing. *Zhongguo Yao Li Xue Bao* 20: 279-282.
5. Weir, M.L., et al. 2001. VAP-A binds promiscuously to both v- and tSNAREs. *Biochem. Biophys. Res. Commun.* 286: 6166-6121.
6. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605704. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Nishimura, A.L., et al. 2004. A mutation in the vesicle-trafficking protein VAPB causes late-onset spinal muscular atrophy and amyotrophic lateral sclerosis. *Am. J. Hum. Genet.* 75: 822-831.
8. Amarilio, R., et al. 2005. Differential regulation of endoplasmic reticulum structure through VAVAP-B/Cir protein interaction. *J. Biol. Chem.* 280: 5934-5944.
9. Hamamoto, I., et al. 2005. Human VAP-B is involved in hepatitis C virus replicatio with NS5A and NS5B. *J. Virol.* 79: 13473-13482.

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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: *Vapb* (mouse) mapping to 2 H4.

PRODUCT

VAP-B/C (m): 293T Lysate represents a lysate of mouse VAP-B/C transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

VAP-B/C (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive VAP-B/C antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.