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Gemin4 (h2): 293T Lysate: sc-177281

BACKGROUND

Gemin4 is a component of the SMN core complex which, while in the cytoplasm, plays an essential role in ribonucleoprotein (snRNP) assembly, including the biogenesis, delivery and recycling of snRNPs to the spliceosome. In the nucleus, where SMN is required for pre-mRNA splicing, Gemin4 concentrates next to coiled bodies in subnuclear structures called gems, that are highly enriched in spliceosomal snRNPs, and in the nucleolus. Deletion or loss-of-function mutations in the SMN lead to the neurodegenerative disease spinal muscular atrophy (SMA). The human Gemin4 maps to chromosome 17p13.3.

REFERENCES

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2. Park, J.W., et al. 2001. Association of galectin-1 and galectin-3 with Gemin4 in complexes containing the SMN protein. *Nucleic Acids Res.* 29: 3595-3602.
3. Mourelatos, Z., et al. 2001. SMN interacts with a novel family of hnRNP and spliceosomal proteins. *EMBO J.* 20: 5443-5452.
4. Di, L., et al. 2003. HCC-associated protein HCAP1, a variant of Gemin4, interacts with zinc-finger proteins. *J. Biochem.* 133: 713-718.
5. Patterson, R.J., et al. 2004. Understanding the biochemical activities of galectin-1 and galectin-3 in the nucleus. *Glycoconj. J.* 19: 499-506.
6. Wang, J.L., et al. 2004. Nucleocytoplasmic lectins. *Biochim. Biophys. Acta* 1673: 75-93.
7. SWISS-PROT/TrEMBL (P57678). World Wide Web URL: <http://ca.expasy.org/cgi-bin/niceprot.pl>

CHROMOSOMAL LOCATION

Genetic locus: GEMIN4 (human) mapping to 17p13.3.

PRODUCT

Gemin4 (h2): 293T Lysate represents a lysate of human Gemin4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Gemin4 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Gemin4 antibodies.

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

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.