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SANTA CRUZ BIOTECHNOLOGY, INC.

LIS1 (m): 293T Lysate: sc-125547

BACKGROUND

Lissencephaly (smooth brain) is an abnormality of brain development characterized by incomplete neuronal migration and a smooth cerebral surface, resulting in severe mental retardation. Genetic analysis identified two proteins that are mutated in some cases of lissencephaly, designated lissencephaly-1 protein (LIS1) and doublecortin. LIS1 shows sequence homology to β subunits of heterotrimeric G proteins. Doublecortin contains a consensus Abl phosphorylation site and it has some sequence homology to a predicted kinase protein. Both proteins are highly expressed in developing brain, suggesting that they may be involved in a signal transduction pathway that is crucial to brain development.

REFERENCES

1. Reiner, O., et al. 1993. Isolation of a Miller-Dieker lissencephaly gene containing G protein β subunit-like repeats. Nature 364: 717-721.
2. Garcia-Higuera, I., et al. 1996. Folding of proteins with WD-repeats: comparison of six members of the WD-repeat superfamily to the G protein β subunit. Biochemistry 35: 13985-13994.
3. Albrecht, U., et al. 1996. Platelet-activating factor acetylhydrolase expression and activity suggest a link between neuronal migration and platelet-activating factor. Dev. Biol. 180: 579-593.
4. Walsh, C.A. 1998. LISsen up! Nat. Genet. 19: 307-308.
5. des Portes, V., et al. 1998. A novel CNS gene required for neuronal migration and involved in X-linked subcortical laminar heterotopia and lissencephaly syndrome. Cell 92: 51-61.
6. Gleeson, J.G., et al. 1998. Doublecortin, a brain-specific gene mutated in human X-linked lissencephaly and double cortex syndrome, encodes a putative signaling protein. Cell 92: 63-72.
7. Shu, T., et al. 2004. NDEL1 operates in a common pathway with LIS1 and cytoplasmic Dynein to regulate cortical neuronal positioning. Neuron 44: 263-277.

CHROMOSOMAL LOCATION

Genetic locus: Pafah1b1 (mouse) mapping to 11 B5.

PRODUCT

LIS1 (m): 293T Lysate represents a lysate of mouse LIS1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

LIS1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive LIS1 antibodies. Recommended use: 10-20 µl per lane.

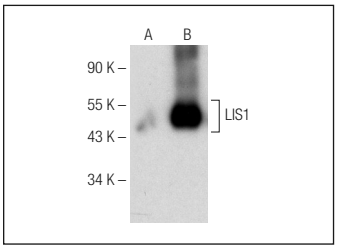
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LIS1 (H-7): sc-374586 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse LIS1 expression in LIS1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

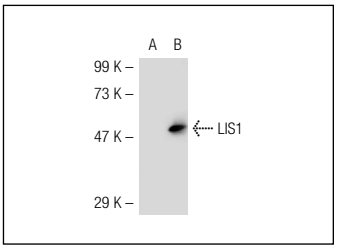
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

DATA



LIS1 (H-7): sc-374586. Western blot analysis of LIS1 expression in non-transfected: sc-117752 (**A**) and mouse LIS1 transfected: sc-125547 (**B**) 293T whole cell lysates.



LIS1 (N-19): sc-7577. Western blot analysis of LIS1 expression in non-transfected: sc-117752 (**A**) and mouse LIS1 transfected: sc-125547 (**B**) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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