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- Gefahrgutzuschlag
- Expressversand

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SANTA CRUZ BIOTECHNOLOGY, INC.

LIMK-1 (h): 293T Lysate: sc-129011

BACKGROUND

Proteins containing LIM motifs are typically involved in cell fate determination and growth control. A family of proteins designated LIM kinases, including LIMK-1 and LIMK-2, has been identified. LIMK-1 has been shown to regulate the stabilization of F-Actin structures and cofilin activity, indicating that LIMK-1 plays a role in a signaling pathway involved in the regulation of cell motility and morphogenesis. LIMK-1 inhibits neuronal differentiation of PC12 cells, and is thought to act by interfering with events downstream of MAPK activation. Expression patterns of LIMK-1 and LIMK-2 suggest that these proteins may have different functions during development. A truncated form of LIMK-2 has been identified in adult testis that is thought to arise from an alternative initiation exon.

REFERENCES

1. Okano, I., et al. 1995. Identification and characterization of a novel family of serine/threonine kinases containing two N-terminal LIM motifs. J. Biol. Chem. 270: 31321-31330.
2. Nunoue, K., et al. 1995. LIMK-1 and LIMK-2, two members of a LIM motif-containing protein kinase family. Oncogene 11: 701-710.
3. Higuchi, O., et al. 1997. Inhibition of activated Ras-induced neuronal differentiation of PC12 cells by the LIM domain of LIM-kinase 1. Oncogene 14: 1819-1825.
4. Mori, T., et al. 1997. Comparison of tissue distribution of two novel serine/threonine kinase genes containing the LIM motif (LIMK-1 and LIMK-2) in the developing rat. Brain Res. Mol. Brain Res. 45: 247-254.
5. Yang, N., et al. 1998. Cofilin phosphorylation by LIMK-1 and its role in Rac-mediated Actin reorganization. Nature 393: 809-812.
6. Takahashi, H., et al. 1998. A novel transcript encoding truncated LIM kinase 2 is specifically expressed in male germ cells undergoing meiosis. Biochem. Biophys. Res. Commun. 249: 138-145.

CHROMOSOMAL LOCATION

Genetic locus: LIMK1 (human) mapping to 7q11.23.

PRODUCT

LIMK-1 (h): 293T Lysate represents a lysate of human LIMK-1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

LIMK-1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive LIMK-1 antibodies. Recommended use: 10-20 µl per lane.

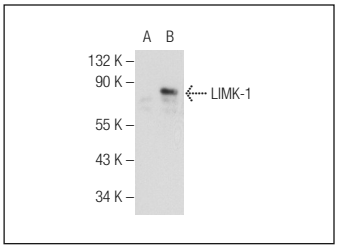
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LIMK-1 (E-7): sc-48346 is recommended as a positive control antibody for Western Blot analysis of enhanced human LIMK-1 expression in LIMK-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

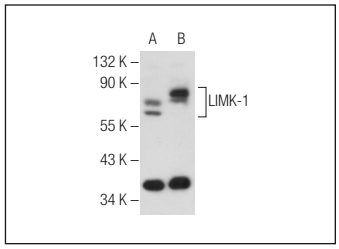
RECOMMENDED SUPPORT REAGENTS

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



LIMK-1 (E-7): sc-48346. Western blot analysis of LIMK-1 expression in non-transfected: sc-117752 (**A**) and human LIMK-1 transfected: sc-129011 (**B**) 293T whole cell lysates.



LIMK-1 (C-10): sc-28370. Western blot analysis of LIMK-1 expression in non-transfected: sc-117752 (**A**) and human LIMK-1 transfected: sc-129011 (**B**) 293T 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.