

LAPSER1 (P-20): sc-67669

BACKGROUND

LAPSER1, also called leucine zipper putative tumor suppressor 2, is a member of the LZTS family. Due to its deletion in multiple cancers, including prostate tumors, LAPSER1 is purported to be a tumor suppressor. In cancer cell lines, the overexpression of LAPSER1 can lead to growth inhibition and colony-forming efficiency. LAPSER1 is highly expressed in testis and prostate, but can be detected at lower levels in spleen, thymus, uterus, small intestine and colon. LAPSER1 co-localizes with γ Tubulin, MKLP-1 and p80 Katanin. LAPSER1 is involved in cytokinesis. The disruption of LAPSER1, which is accompanied by the mislocalization of p80 Katanin, results in malformation of the central spindle. This is a potential impetus for carcinogenesis.

REFERENCES

1. Cabeza-Arvelaiz, Y., Thompson, T.C., Sepulveda, J.L. and Chinault, A.C. 2001. LAPSER1: a novel candidate tumor suppressor gene from 10q24.3. *Oncogene* 20: 6707-6717.
2. Teufel, A., Weinmann, A., Galle, P.R. and Lohse, A.W. 2005. In silico characterization of LZTS3, a potential tumor suppressor. *Oncol. Rep.* 14: 547-551.
3. Thyssen, G., Li, T.H., Lehmann, L., Zhuo, M., Sharma, M. and Sun, Z. 2006. LZTS2 is a novel β -catenin-interacting protein and regulates the nuclear export of β -catenin. *Mol. Cell. Biol.* 26: 8857-8867.
4. Sudo, H. and Maru, Y. 2007. LAPSER1 is a putative cytokinetic tumor suppressor that shows the same centrosome and midbody subcellular localization pattern as p80 Katanin. *FASEB J.* 21: 2086-2100.

CHROMOSOMAL LOCATION

Genetic locus: LZTS2 (human) mapping to 10q24.31; Lzts2 (mouse) mapping to 19 C3.

SOURCE

LAPSER1 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LAPSER1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-67669 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

LAPSER1 (P-20) is recommended for detection of LAPSER1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

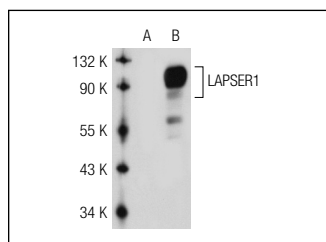
LAPSER1 (P-20) is also recommended for detection of LAPSER1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LAPSER1 siRNA (h): sc-62541, LAPSER1 siRNA (m): sc-62542, LAPSER1 shRNA Plasmid (h): sc-62541-SH, LAPSER1 shRNA Plasmid (m): sc-62542-SH, LAPSER1 shRNA (h) Lentiviral Particles: sc-62541-V and LAPSER1 shRNA (m) Lentiviral Particles: sc-62542-V.

Molecular Weight of LAPSER1: 73 kDa.

Positive Controls: LAPSER1 (h): 293T Lysate: sc-116591.

DATA



LAPSER1 (P-20): sc-67669. Western blot analysis of LAPSER1 expression in non-transfected: sc-117752 (A) and human LAPSER1 transfected: sc-116591 (B) 293T whole cell lysates.

RESEARCH USE

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

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Try **LAPSER1 (D-7): sc-514618** or **LAPSER1 (B-5): sc-271958**, our highly recommended monoclonal alternatives to LAPSER1 (P-20).