

LSP1 (16): sc-135976

BACKGROUND

pp52 (human) or LSP1 (murine) is a hematopoietic-expressed gene that encodes an F-Actin-binding, leukocyte-specific (including B and T lymphocytes, granulocytes and macrophages), phosphoprotein. However, mRNA splice variants that do not encode the lympho-specific protein are expressed from this gene in non-lymphoid cell lines as well (myocytes, stromal cells and fibroblasts), suggesting pp52 has a divergent role in signal transduction. The pp52 (LSP1) locus maps to human chromosome 11p15.5, which is implicated in tumor-related chromosomal translocations found in chronic lymphocytic leukemia. The pp52 promoter contains key elements that control transcriptional activity including an initiator specifying the unique 5' terminus of pp52 mRNA, tandem pairs of Ets and SP1 motifs, and a single C/EBP motif. LSP1 binds the cytoskeleton and has been implicated in affecting cytoskeletal remodeling in a variety of leukocyte functions, including cell motility and chemotaxis.

REFERENCES

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4. Pulford, K., Jones, M., Banham, A.H., Haralambieva, E. and Mason, D.Y. 1999. Lymphocyte-specific protein 1: a specific marker of human leucocytes. *Immunology* 96: 262-271.
4. Miyoshi, E.K., Stewart, P.L., Kincade, P.W., Lee, M.B., Thompson, A.A. and Wall, R. 2001. Aberrant expression and localization of the cytoskeleton-binding pp52 (LSP1) protein in hairy cell leukemia. *Leuk. Res.* 25: 57-67.
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CHROMOSOMAL LOCATION

Genetic locus: LSP1 (human) mapping to 11p15.5.

SOURCE

LSP1 (16) is a mouse monoclonal antibody raised against amino acids 75-215 of LSP1 of human origin.

PRODUCT

Each vial contains 50 µg IgG1 in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

RESEARCH USE

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

APPLICATIONS

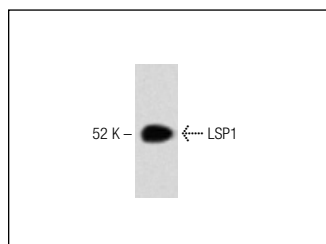
LSP1 (16) is recommended for detection of LSP1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); not recommended for immunoprecipitation.

Suitable for use as control antibody for LSP1 siRNA (h): sc-42899, LSP1 shRNA Plasmid (h): sc-42899-SH and LSP1 shRNA (h) Lentiviral Particles: sc-42899-V.

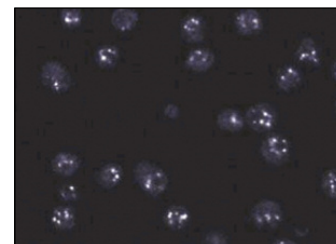
Molecular Weight of LSP1: 52 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HuT 78 whole cell lysate: sc-2208 or Ramos cell lysate: sc-2216.

DATA



LSP1 (16): sc-135976. Western blot analysis of LSP1 expression in A-431 whole cell lysate.



LSP1 (16): sc-135976. Immunofluorescence staining of Jurkat cells showing nuclear localization.

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 for detailed protocols and support products.