**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 nonlymphoid 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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

LSP1 (TDP153) is a mouse monoclonal antibody raised against tonsil cells of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

LSP1 (TDP153) is available conjugated to agarose (sc-53363 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53363 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53363 PE), fluorescein (sc-53363 FITC), Alexa Fluor® 488 (sc-53363 AF488), Alexa Fluor® 546 (sc-53363 AF546), Alexa Fluor® 594 (sc-53363 AF594) or Alexa Fluor® 647 (sc-53363 AF647), 200 µg/ml, for WB (RGB), IF, IHQ(P) and FCM; and to either Alexa Fluor® 680 (sc-53363 AF680) or Alexa Fluor® 790 (sc-53363 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

LSP1 (TDP153) is recommended for detection of LSP1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

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: Raji whole cell lysate: sc-364236, NAMALWA cell lysate: sc-2234 or BJAB whole cell lysate: sc-2207.

**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**

LSP1 (TDP153): sc-53363. Western blot analysis of LSP1 expression in Raji (A), NAMALWA (B) and BJAB (C) whole cell lysates. Detection reagent used: m-IgGκ BP-HRP: sc-516102.

LSP1 (TDP153): sc-53063. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing membrane and cytoplasmic staining of cells in white pulp and cells in red pulp (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing membrane and cytoplasmic staining of lymphoid cells (B).

**STORAGE**

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

**RESEARCH USE**

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