

LASP-1 (H-91): sc-292342

BACKGROUND

LASP-1 (LIM and SH3 domain protein 1), also known as MLN50, is a 261 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one SH3 domain, one LIM zinc-binding domain and 2 Nebulin repeats. Expressed as two alternatively spliced isoforms, LASP-1 interacts with F-Actin and plays an important role in the regulation of Actin-associated cytoskeletal organization. LASP-1 is subject to post-translational phosphorylation, an event which may regulate Actin-related ion transport activities in epithelial cells. Overexpression of LASP-1 is associated with breast cancer, suggesting a role for LASP-1 in tumor transformation and metastasis. The gene encoding LASP-1 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

- Tomasetto, C., et al. 1995. LASP-1 (MLN 50) defines a new LIM protein subfamily characterized by the association of LIM and SH3 domains. *FEBS Lett.* 373: 245-249.
- Schreiber, V., et al. 1998. Chromosomal assignment and expression pattern of the murine *Lasp1* gene. *Gene* 207: 171-175.

CHROMOSOMAL LOCATION

Genetic locus: LASP1 (human) mapping to 17q12; *Lasp1* (mouse) mapping to 11 D.

SOURCE

LASP-1 (H-91) is a rabbit polyclonal antibody raised against amino acids 123-213 mapping within an internal region of LASP-1 of human origin.

PRODUCT

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

APPLICATIONS

LASP-1 (H-91) is recommended for detection of LASP-1 of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LASP-1 (H-91) is also recommended for detection of LASP-1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for LASP-1 siRNA (h): sc-105607, LASP-1 siRNA (m): sc-105608, LASP-1 shRNA Plasmid (h): sc-105607-SH, LASP-1 shRNA Plasmid (m): sc-105608-SH, LASP-1 shRNA (h) Lentiviral Particles: sc-105607-V and LASP-1 shRNA (m) Lentiviral Particles: sc-105608-V.

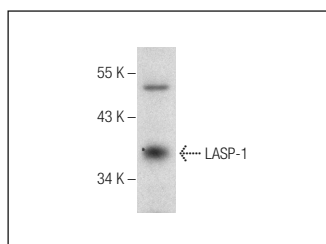
Molecular Weight of LASP-1: 40 kDa.

Positive Controls: SK-OV-3 whole cell lysate: sc-364229.

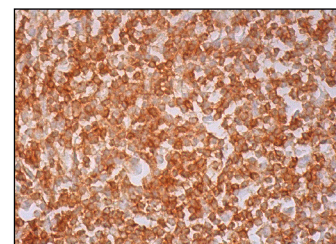
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



LASP-1 (H-91): sc-292342. Western blot analysis of LASP-1 expression in SK-OV-3 whole cell lysate.



LASP-1 (H-91): sc-292342. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing cytoplasmic and membrane staining of cells in germinal centers and cells in non-germinal centers.

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.

PROTOCOLS

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



Try **LASP-1 (G-7): sc-374059** or **LASP-1 (B-3): sc-398990**, our highly recommended monoclonal alternatives to LASP-1 (H-91).