

## LPP (E-14): sc-27313

### BACKGROUND

The zyxin family of proteins contains five members: Ajuba, Limd1, LPP, TRIP6 and zyxin. LPP (LIM-containing lipoma-preferred partner), a LIM domain-containing scaffolding protein contains three LIM domains at its carboxy terminus, which are preceded by a proline-rich pre-LIM region containing a number of protein interaction domains. LPP localizes to sites of cell adhesion, such as focal adhesions and cell-cell contacts, and shuttles to the nucleus where it has transcriptional activation capacity. The human LPP gene maps to chromosomal location 3q28, and preferentially translocates to the HMGIC gene in a subclass of human benign mesenchymal tumors known as lipomas.

### REFERENCES

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2. Petit, M.M., et al. 1996. LPP, the preferred fusion partner gene of HMGIC in lipomas, is a novel member of the LIM protein gene family. *Genomics* 36: 118-129.
3. Petit, M.M., et al. 2000. LPP, an actin cytoskeleton protein related to zyxin, harbors a nuclear export signal and transcriptional activation capacity. *Mol. Biol. Cell* 11: 117-129.
4. Daheron, L., et al. 2001. Human LPP gene is fused to MLL in a secondary acute leukemia with a t(3;11)(q28;q23). *Genes Chromosomes Cancer* 31: 382-389.
5. Petit, M.M., et al. 2003. The focal adhesion and nuclear targeting capacity of the LIM-containing lipoma-preferred partner (LPP) protein. *J. Biol. Chem.* 278: 2157-2168.
6. Gorenne, I., et al. 2003. LPP, a LIM protein highly expressed in smooth muscle. *Am. J. Physiol., Cell Physiol.* 285: C674-685.
7. Li, B., et al. 2003. The lipoma preferred partner LPP interacts with  $\alpha$ -actinin. *J. Cell Sci.* 116: 1359-1366.
8. Petit, M.M., et al. 2005. The tumor suppressor Scrib interacts with the zyxin-related protein LPP, which shuttles between cell adhesion sites and the nucleus. *BMC Cell Biol.* 6: 1.

### CHROMOSOMAL LOCATION

Genetic locus: LPP (human) mapping to 3q28; Lpp (mouse) mapping to 16 B1.

### SOURCE

LPP (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of LPP of human origin.

### PRODUCT

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

Blocking peptide available for competition studies, sc-27313 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

LPP (E-14) is recommended for detection of LPP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

LPP (E-14) is also recommended for detection of LPP in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LPP siRNA (h): sc-45969, LPP siRNA (m): sc-45970, LPP shRNA Plasmid (h): sc-45969-SH, LPP shRNA Plasmid (m): sc-45970-SH, LPP shRNA (h) Lentiviral Particles: sc-45969-V and LPP shRNA (m) Lentiviral Particles: sc-45970-V.

Molecular Weight of LPP: 80 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Caco-2 cell lysate: sc-2262.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **LPP (8B3A11): sc-101434**, our highly recommended monoclonal alternative to LPP (E-14).