

LPP (8B3A11): sc-101434

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.

CHROMOSOMAL LOCATION

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

SOURCE

LPP (8B3A11) is a mouse monoclonal antibody raised against recombinant LPP of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

LPP (8B3A11) is available conjugated to agarose (sc-101434 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-101434 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-101434 PE), fluorescein (sc-101434 FITC), Alexa Fluor[®] 488 (sc-101434 AF488), Alexa Fluor[®] 546 (sc-101434 AF546), Alexa Fluor[®] 594 (sc-101434 AF594) or Alexa Fluor[®] 647 (sc-101434 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-101434 AF680) or Alexa Fluor[®] 790 (sc-101434 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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RESEARCH USE

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

APPLICATIONS

LPP (8B3A11) 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), 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).

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.

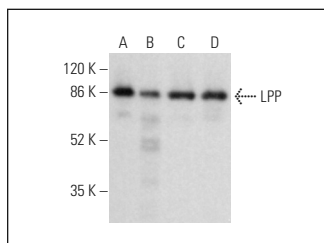
Molecular Weight of LPP: 80 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

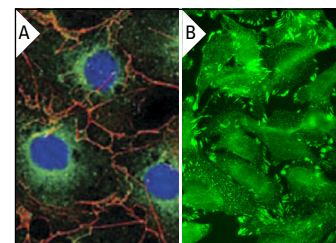
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



LPP (8B3A11): sc-101434. Western blot analysis of LPP expression in HeLa (A), BT-20 (B), HEK293 (C) and MDA-MB-231 (D) whole cell lysates.



LPP (8B3A11): sc-101434. Immunofluorescence staining of COS cells showing cytoplasmic localization (green), actin filaments (red) are labeled with DY-554 phalloidin (A). Immunofluorescence staining of formalin-fixed SW480 cells showing membrane and focal adhesions localization (B).

SELECT PRODUCT CITATIONS

1. Cheerathodi, M. and Ballif, B.A. 2011. Identification of CrkL-SH3 binding proteins from embryonic murine brain: implications for Reelin signaling during brain development. *J. Proteome Res.* 10: 4453-4462.
2. Kiepas, A., et al. 2020. The SHCA adapter protein cooperates with lipoma-preferred partner in the regulation of adhesion dynamics and invadopodia formation. *J. Biol. Chem.* 295: 10535-10559.

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.