

**LPP Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1148a****Specification**

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**LPP Antibody - Product Information**

Application	WB, IHC, ICC, E
Primary Accession	<a href="#">Q93052</a>
Reactivity	Human, Mouse, Hamster, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	66kDa KDa

**Description**

LIM domain containing preferred translocation partner in lipoma. 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 carboxyterminus, which are preceded by a proline-rich pre-LIM region containing a number of protein interaction domains. LPP, an 80 kDa protein, 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.

**Immunogen**

Purified recombinant fragment of human LPP expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**LPP Antibody - Additional Information**

**Gene ID** 4026

**Other Names**

Lipoma-preferred partner, LIM domain-containing preferred translocation partner in lipoma, LPP

**Dilution**

WB ~ 1/500 - 1/2000

IHC ~ 1/500 - 1/2000

ICC ~ N/A

E ~ N/A

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

LPP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **LPP Antibody - Protein Information**

**Name** LPP

### **Function**

May play a structural role at sites of cell adhesion in maintaining cell shape and motility. In addition to these structural functions, it may also be implicated in signaling events and activation of gene transcription. May be involved in signal transduction from cell adhesion sites to the nucleus allowing successful integration of signals arising from soluble factors and cell-cell adhesion sites. Also suggested to serve as a scaffold protein upon which distinct protein complexes are assembled in the cytoplasm and in the nucleus.

### **Cellular Location**

Nucleus. Cytoplasm. Cell junction. Cell membrane. Note=Found in the nucleus, in the cytoplasm and at cell adhesion sites Shuttles between the cytoplasm and the nucleus. It has been found in sites of cell adhesion such as cell-to-cell contact and focal adhesion which are membrane attachment sites of cells to the extracellular matrix. Mainly nuclear when fused with HMGA2/HMGIC and KMT2A/MLL1

### **Tissue Location**

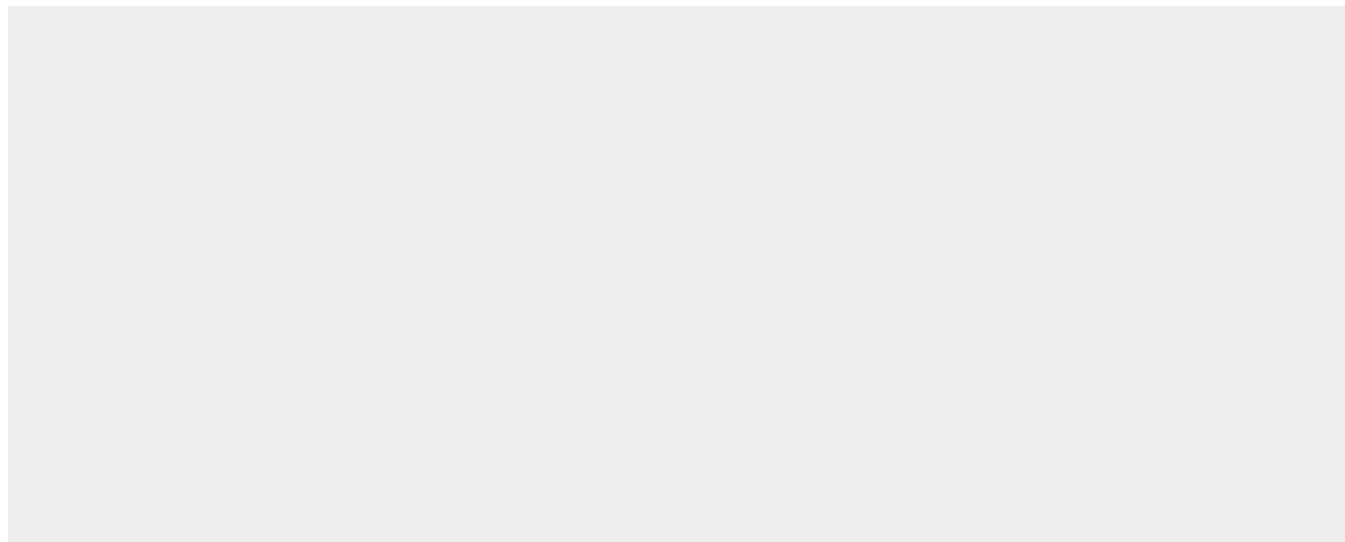
Expressed in a wide variety of tissues but no or very low expression in brain and peripheral leukocytes

## **LPP Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **LPP Antibody - Images**



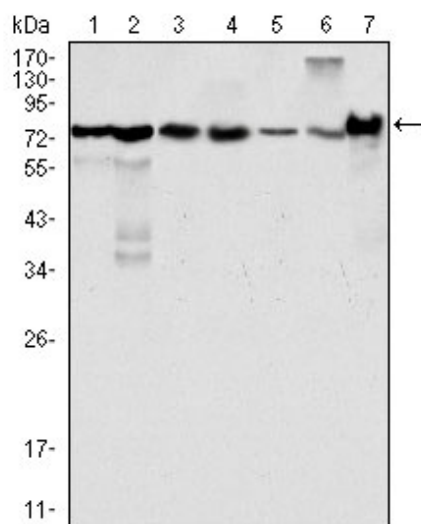


Figure 1: Western blot analysis using LPP mouse mAb against Hela (1), NIH/3T3 (2), COS (3), Caki (4), MCF-7 (5), HepG2 (6) and SMMC-7721 (7) cell lysate.

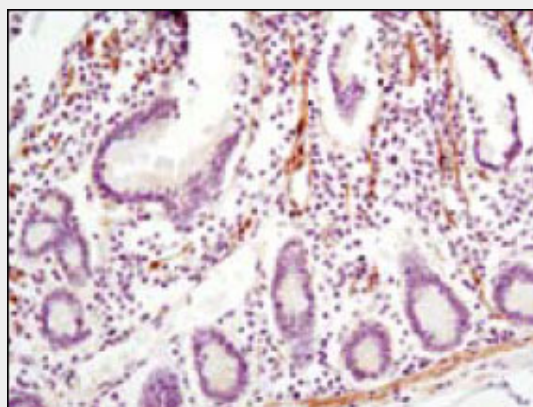


Figure 2: Immunohistochemical analysis of paraffin-embedded human small intestine using LPP mouse mAb with DAB staining.

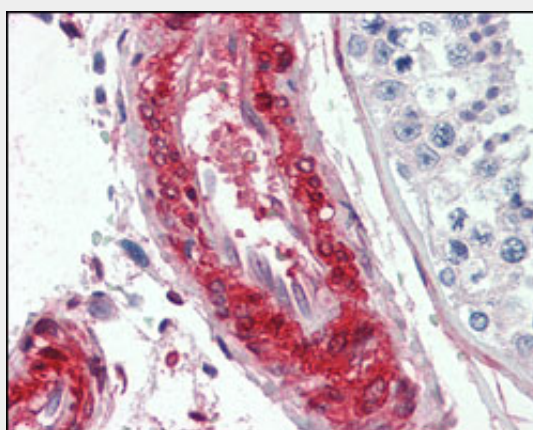


Figure 3: Immunohistochemical analysis of paraffin-embedded human vessels tissues using LPP mouse mAb.

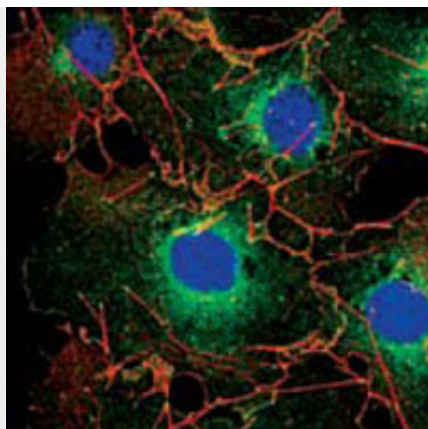


Figure 4: Confocal immunofluorescence analysis of COS cells using LPP mouse mAb (green). Red: Actin filaments have been labeled using DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

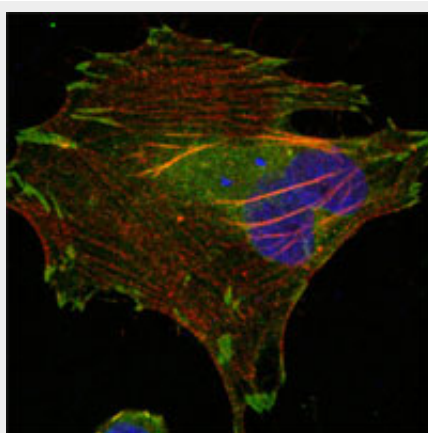


Figure 5: Confocal immunofluorescence analysis of HeLa cells using LPP mouse mAb (green). Red: Actin filaments have been labeled using DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

#### **LPP Antibody - References**

1. BMC Cell Biol. 2005 Jan 13;6(1):1
2. Mol Cell Proteomics. 2005 Sep;4(9):1240-50. Epub 2005 Jun 11.
3. Cancer Genet Cytogenet. 2005 Nov;163(1):68-70.