



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

# LASP1 Antibody

Store at -20C  
#8636

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	38	Rabbit	#Q14847	3927

## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

LASP1 Antibody detects endogeneous levels of total LASP1 protein.

## Species predicted to react based on 100% sequence homology

Monkey

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala191 of human LASP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

LASP1 is a cytoskeletal scaffold protein belonging to the LIM protein subfamily (1,2). LASP1 consists of an N-terminal LIM domain, followed by two nebulin repeats, and a C-terminal SH3 domain (1,3). The nebulin repeats interact with actin, while the SH3 domain interacts with palladin (4,5), suggesting LASP1 functions as an actin-binding protein, possibly in cytoskeletal organization. LASP1 has been shown to localize to focal adhesions, lamellipodia, and membrane ruffles (6-8) and might be involved in membrane migration. Overexpression of LASP1 has been associated with metastatic cancers, such as breast and ovarian cancer (2). In these cases, membrane, cytoplasmic, and nuclear localization of LASP1 in the tumor cell has been reported, suggesting LASP1 involvement in membrane and nuclear signaling (9,10).

## Background References

1. Tomasetto, C. et al. (1995) *FEBS Lett* 373, 245-9.
2. Grunewald, T.G. and Butt, E. (2008) *Mol Cancer* 7, 31.
3. Schreiber, V. et al. (1998) *Mol Med* 4, 675-87.
4. Chew, C.S. et al. (2002) *J Cell Sci* 115, 4787-99.
5. Rachlin, A.S. and Otey, C.A. (2006) *J Cell Sci* 119, 995-1004.
6. Chew, C.S. et al. (2000) *J Cell Sci* 113 ( Pt 11), 2035-45.
7. Lin, Y.H. et al. (2004) *J Cell Biol* 165, 421-32.
8. Grunewald, T.G. et al. (2007) *Br J Cancer* 96, 296-305.
9. Frietsch, J.J. et al. (2010) *Br J Cancer* 102, 1645-53.
10. Traenka, C. et al. (2010) *Cancer Res* 70, 8003-14.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human

## Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

## Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.