

LASP1 Antibody

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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 endogenous 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

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