

LIMD1 Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	72	Rabbit	#Q9UGP4	8994

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

LIMD1 Antibody recognizes endogenous levels of total LIMD1 protein. This antibody cross-reacts with a protein of unknown origin at ~45 kDa.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human LIMD1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

LIM domain-containing protein 1 (LIMD1) is a putative tumor suppressor and adapter/scaffold protein that belongs to the Ajuba family of LIM domain containing proteins. LIM domain containing proteins mediate protein-protein interactions and typically contain a pair of distinct zinc finger domains (1). Research studies indicate that LIMD1 is involved in numerous cellular processes, including inhibition of E2F mediated transcription (2) and negative regulation of the Hippo pathway through influence on YAP phosphorylation state (3,4). Additional studies identify LIMD1 as a hypoxia regulator as it recruits the Von Hippel-Lindau (VHL) protein and the hydroxylase PHD1 to a protein complex that promotes initiation of HIF-1α ubiquitination and degradation (5). Research evidence supporting the role of LIMD1 as a tumor suppressor includes the down regulation of the protein in 80% of lung cancers (6), loss of LIMD1 expression in head and neck cancers (7), and altered subcellular localization in cases of breast cancer (8).

Background References

- Schmeichel, K.L. and Beckerle, M.C. (1994) *Cell* 79, 211-9.
- Sharp, T.V. et al. (2004) *Proc Natl Acad Sci U S A* 101, 16531-6.
- Sun, G. and Irvine, K.D. (2013) *Sci Signal* 6, ra81.
- Reddy, B.V. and Irvine, K.D. (2013) *Dev Cell* 24, 459-71.
- Foxler, D.E. et al. (2012) *Nat Cell Biol* 14, 201-8.
- Sharp, T.V. et al. (2008) *Proc Natl Acad Sci U S A* 105, 19932-7.
- Ghosh, S. et al. (2010) *Mol Cancer* 9, 58.
- Spendlove, I. et al. (2008) *Int J Cancer* 123, 2247-53.

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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