

LATS2 Antibody

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #Q9NRM7	Entrez-Gene Id: 26524
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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

LATS2 Antibody recognizes endogenous levels of total LATS2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human LATS2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Large tumor suppressor kinase 2 (LATS2) is an AGC kinase of the NDR family of kinases. It is a LATS family tumor suppressor that plays a critical role in centrosome duplication, maintenance of mitotic fidelity, and genomic stability (1). LATS2 inhibits cell growth at the G1/S transition by down-regulating cyclin E/CDK2 kinase activity (2). It also plays an important role in regulation of the Hippo pathway, which is important in controlling organ size and tumor progression by regulating cellular proliferation and promoting apoptosis (3-5).

Background References

1. Yabuta, N. et al. (2007) *J Biol Chem* 282, 19259-71.
2. Li, Y. et al. (2003) *Oncogene* 22, 4398-405.
3. Harvey, K. and Tapon, N. (2007) *Nat Rev Cancer* 7, 182-91.
4. Zeng, Q. and Hong, W. (2008) *Cancer Cell* 13, 188-92.
5. Visser, S. and Yang, X. (2010) *Cell Cycle* 9, 3892-903.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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