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Store at -20C
#3845

LIMK2 (8C11) Rabbit mAb

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

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P53671	Entrez-Gene Id: 3985
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

LIMK2 (8C11) Rabbit Monoclonal Antibody detects endogenous levels of total LIMK2 protein. The antibody does not cross-react with LIMK1.

Species predicted to react based on 100% sequence homology

Mouse

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminal residues of human LIMK2.

Background

LIM kinases (LIMK1 and LIMK2) are serine/threonine kinases that have two zinc finger motifs, known as LIM motifs, in their amino-terminal regulatory domains (1). LIM kinases are involved in actin cytoskeletal regulation downstream of Rho-family GTPases, PAKs, and ROCK (2,3). PAK1 and ROCK phosphorylate LIMK1 or LIMK2 at the conserved Thr508 or Thr505 residues in the activation loop, increasing LIMK activity (3-5). Activated LIM kinases inhibit the actin depolymerization activity of cofilin by phosphorylation at the amino-terminal Ser3 residue of cofilin (6,7).

Background References

- Okano, I. et al. (1995) *J. Biol. Chem.* 270, 31321-31330.
- Maekawa, M. et al. (1999) *Science* 285, 895-898.
- Edwards, D. C. et al. (1999) *Nat. Cell Biol.* 1, 253-259.
- Ohashi, K. et al. (2000) *J. Biol. Chem.* 275, 3577-3582.
- Sumi, T. et al. (2001) *J. Biol. Chem.* 276, 670-676.
- Arber, S. et al. (1998) *Nature* 393, 805-809.
- Yang, N. et al. (1998) *Nature* 393, 809-812.

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 **Mk:** Monkey

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