10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

LIMK2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10429

Specification

LIMK2 Antibody - Product Information

Application	**WB**
Primary Accession	P53671
Other Accession	NP_001026971
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**72232**

LIMK2 Antibody - Additional Information

Gene ID 3985

Application & Usage	**Western blotting (1-4 µg/ml). However, the optimal conditions should be determined individually. The antibody detects 70 kDa LIMK2 protein. It does not cross-react with LIMK1.**

Other Names
EC 2.7.11.1 , LIMK-2 , LIM domain kinase 2 , LIMK

Target/Specificity
LIMK2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) peptide affinity purified rabbit polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions

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LIMK2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LIMK2 Antibody - Protein Information

Name LIMK2

Function
Serine/threonine-protein kinase that plays an essential role in the regulation of actin filament dynamics (PubMed:10436159, PubMed:11018042). Acts downstream of several Rho family GTPase signal transduction pathways (PubMed:10436159, PubMed:11018042). Involved in astral microtubule organization and mitotic spindle orientation during early stages of mitosis by mediating phosphorylation of TPPP (PubMed:22328514). Displays serine/threonine-specific phosphorylation of myelin basic protein and histone (MBP) in vitro (PubMed:8537403). Suppresses ciliogenesis via multiple pathways; phosphorylation of CFL1, suppression of directional trafficking of ciliary vesicles to the ciliary base, and by facilitating YAP1 nuclear localization where it acts as a transcriptional corepressor of the TEAD4 target genes AURKA and PLK1 (PubMed:25849865).

Cellular Location
Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome [Isoform LIMK2b]: Cytoplasm. Cytoplasm, perinuclear region. Nucleus Note=Mainly present in the cytoplasm and is scarcely translocated to the nucleus.

LIMK2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LIMK2 Antibody - Images

LIMK2 Antibody - Background

LIM kinases (LIMK1 and LIMK2) are serine/threnine kinases that have two zinc finger motifs, known as LIM motifs in their N-terminal regulatory domain. LIM kinases are involved in actin cytoskeleton regulation thro µgh Rho-family GTPases and downstream kinases PAKs and ROCK. PAK1 and ROCK phosphorylate LIMK1 and LIMK2, which increases the activity of the kinases. Activated LIM kinases inhibit the actin depolymerization activity of cofilin by phosphorylation at the N-terminus of Cofilin.