## LIMK1 polyclonal antibody

Catalog # PAB3484 Size 400 uL

## **Applications**



## Western Blot (Cell lysate)

The LIMK1 polyclonal antibody (Cat # PAB3484) is used in Western blot to detect LIMK1 in A-375 cell lysate.



### Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with LIMK1 polyclonal antibody (Cat # PAB3484), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. HC = hepatocarcinoma.

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of LIMK1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human LIMK1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

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Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

## Applications

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Gene Info — LIMK1	
Entrez GenelD	<u>3984</u>
Protein Accession#	<u>P53667</u>
Gene Name	LIMK1
Gene Alias	LIMK
Gene Description	LIM domain kinase 1
Omim ID	<u>601329</u>
Gene Ontology	Hyperlink
Gene Summary	There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they c ontain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Althou gh zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protei n-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique co mbination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. LIMK1 is likely to b e a component of an intracellular signaling pathway and may be involved in brain development. LI MK1 hemizygosity is implicated in the impaired visuospatial constructive cognition of Williams sy ndrome. [provided by RefSeq



Other Designations

LIM motif-containing protein kinase|OTTHUMP00000025066

## **Publication Reference**

 <u>Rho-associated kinase ROCK activates LIM-kinase 1 by phosphorylation at threonine 508 within the activation</u> <u>loop.</u>

Ohashi K, Nagata K, Maekawa M, Ishizaki T, Narumiya S, Mizuno K.

The Journal of Biological Chemistry 2000 Feb; 275(5):3577.

Application: WB-Tr, Monkey, COS-7 cells

Signaling from Rho to the actin cytoskeleton through protein kinases ROCK and LIM-kinase.

Maekawa M, Ishizaki T, Boku S, Watanabe N, Fujita A, Iwamatsu A, Obinata T, Ohashi K, Mizuno K, Narumiya S. Science 1999 Aug; 285(5429):895.

Structural features of LIM kinase that control effects on the actin cytoskeleton.

Edwards DC, Gill GN.

The Journal of Biological Chemistry 1999 Apr; 274(16):11352.

Application: IF, IP, KA, WB-Tr, Monkey, COS-7, HEK 293 cells

#### Pathway

- Axon guidance
- Fc gamma R-mediated phagocytosis
- <u>Regulation of actin cytoskeleton</u>

#### Disease

- Brain Ischemia
- <u>Cerebral Hemorrhage</u>
- Cleft Lip
- <u>Cleft Palate</u>
- Genetic Predisposition to Disease

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- Intracranial Aneurysm
- <u>Metabolic Syndrome X</u>
- Renal Insufficiency
- <u>Stroke</u>
- Werner syndrome