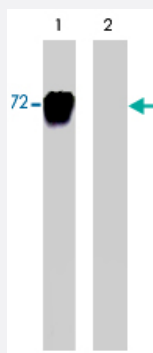


# LIMK1 (phospho T508) polyclonal antibody

Catalog # PAB7928

Size 100 uL

## Applications



### Western Blot (Recombinant protein)

Western blot of activated mouse recombinant LIMK1 untreated (lane 1) or treated with lambda phosphatase (lane 2). The blots were probed with LIMK1 (phospho T508) polyclonal antibody (Cat # PAB7928).

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic phosphopeptide of LIMK1.
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to residues surrounding T508 of human LIMK1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Specificity</b>	This sequence is conserved in rat and mouse LIMK1, and has high homology to Thr-505 in human LIMK2.
<b>Form</b>	Liquid
<b>Quality Control Testing</b>	Antibody Reactive Against Synthetic Peptide.
<b>Recommend Usage</b>	ELISA (1:2000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

**Storage Instruction**

Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Recombinant protein)

Western blot of activated mouse recombinant LIMK1 untreated (lane 1) or treated with lambda phosphatase (lane 2). The blots were probed with LIMK1 (phospho T508) polyclonal antibody (Cat # PAB7928).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — LIMK1

**Entrez GeneID** [3984](#)

**Gene Name** LIMK1

**Gene Alias** LIMK

**Gene Description** LIM domain kinase 1

**Omim ID** [601329](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary**

There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. LIMK1 is likely to be a component of an intracellular signaling pathway and may be involved in brain development. LIMK1 hemizyosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. [provided by RefSeq]

**Other Designations** LIM motif-containing protein kinase|OTTHUMP00000025066

## Publication Reference

- [MAPKAPK-2-mediated LIM-kinase activation is critical for VEGF-induced actin remodeling and cell migration.](#)

Kobayashi M, Nishita M, Mishima T, Ohashi K, Mizuno K.

The EMBO Journal 2006 Feb; 25(4):713.

- [Activation of LIM-kinase by Pak1 couples Rac/Cdc42 GTPase signalling to actin cytoskeletal dynamics.](#)

Edwards DC, Sanders LC, Bokoch GM, Gill GN.

Nature Cell Biology 1999 Sep; 1(5):253.

- [Identification and characterization of a novel family of serine/threonine kinases containing two N-terminal LIM motifs.](#)

Okano I, Hiraoka J, Otera H, Nunoue K, Ohashi K, Iwashita S, Hirai M, Mizuno K.

The Journal of Biological Chemistry 1995 Dec; 270(52):31321.

## Pathway

- [Axon guidance](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Regulation of actin cytoskeleton](#)

## Disease

- [Brain Ischemia](#)
- [Cerebral Hemorrhage](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [Intracranial Aneurysm](#)
- [Metabolic Syndrome X](#)
- [Renal Insufficiency](#)
- [Stroke](#)

- [Werner syndrome](#)