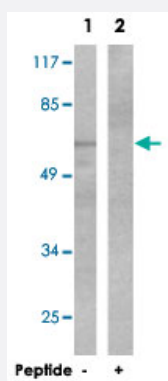


LIMK1 polyclonal antibody

Catalog # PAB18112 Size 100 ug

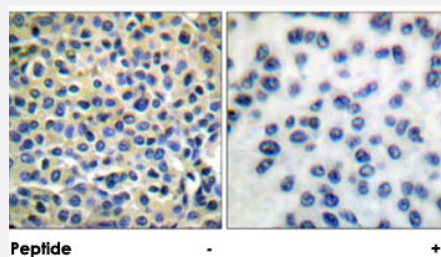
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from COS-7 cells, using LIMK1 polyclonal antibody (Cat # PAB18112).

Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using LIMK1 polyclonal antibody (Cat # PAB18112).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of LIMK1.
Immunogen	A synthetic peptide corresponding to human LIMK1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to LIMK1.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:40000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% 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 (Cell lysate)

Western blot analysis of extracts from COS-7 cells, using LIMK1 polyclonal antibody (Cat # PAB18112).
Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using LIMK1 polyclonal antibody (Cat # PAB18112).
Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — LIMK1

Entrez GeneID	3984
Protein Accession#	P53667
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 hemizygosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. [provided by RefSeq]

Other Designations

LIM motif-containing protein kinase|OTTHUMP00000025066

Publication Reference

- [The Rho GTPase effector ROCK regulates cyclin A, cyclin D1, and p27Kip1 levels by distinct mechanisms.](#)

Croft DR, Olson MF.

Molecular and Cellular Biology 2006 Jun; 26(12):4612.

Application: WB-Tr, Mouse, NIH/3T3 cells

- [Par-3 mediates the inhibition of LIM kinase 2 to regulate cofilin phosphorylation and tight junction assembly.](#)

Chen X, Macara IG.

The Journal of Cell Biology 2006 Feb; 172(5):671.

- [Actin-myosin-based contraction is responsible for apoptotic nuclear disintegration.](#)

Croft DR, Coleman ML, Li S, Robertson D, Sullivan T, Stewart CL, Olson MF.

Journal of Cell Biology 2005 Jan; 168(2):245.

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](#)