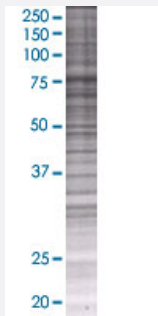


# LIMK2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00003985-T01

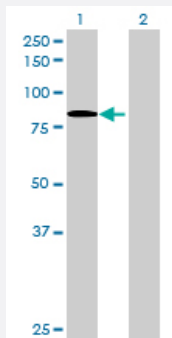
Size 100 uL

## Applications



### SDS-PAGE Gel

LIMK2 transfected lysate.



### Western Blot

Lane 1: LIMK2 transfected lysate ( 75.57 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-LIMK2 full-length
Host	Human
Theoretical MW (kDa)	75.57
Interspecies Antigen Sequence	Mouse (95); Rat (95)

## Quality Control Testing

Transient overexpression cell lysate was tested with Anti-LIMK2 antibody ([H00003985-B01](#)) by Western Blots.  
 SDS-PAGE Gel  
 LIMK2 transfected lysate.  
 Western Blot  
 Lane 1: LIMK2 transfected lysate ( 75.57 KDa)  
 Lane 2: Non-transfected lysate.

## Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

## Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — LIMK2

### Entrez GeneID

[3985](#)

### GeneBank Accession#

[NM\\_001031801.1](#)

### Protein Accession#

[NP\\_001026971.1](#)

### Gene Name

LIMK2

### Gene Alias

-

### Gene Description

LIM domain kinase 2

### Omim ID

[601988](#)

### 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. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

### Other Designations

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## Pathway

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

## Disease

- [Azoospermia](#)
- [Infertility](#)
- [Kidney Failure](#)
- [Oligospermia](#)
- [Tobacco Use Disorder](#)