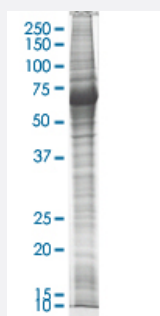


# LIMK2 HEK293 Cell Transient Overexpression Lysate(Non-Denatured)

Catalog # L132T6

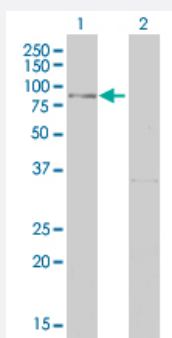
Size 100 ug

## Applications



### SDS-PAGE Gel

LIMK2 transfected lysate



### Western Blot

Lane 1: LIMK2 transfected lysate ( 78 KDa).

Lane 2: Non-transfected lysate.

## Specification

**Transfected Cell Line** HEK293

**Plasmid** pCMV-LIMK2 full length

**Host** Human

**Theoretical MW (kDa)** 78

**Lysis Buffer** Modified RIPA Lysis Buffer:50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.

**Concentration** 2 mg/ml

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-LIMK2 antibody ([H00003985-M01](#)) by Western Blots.  
SDS-PAGE Gel  
LIMK2 transfected lysate  
Western Blot  
Lane 1: LIMK2 transfected lysate ( 78 KDa).  
Lane 2: Non-transfected lysate.

**Recommend Usage**

Use it directly for immuno-precipitation, or heat lysate with SDS gel loading buffer to 95°C for 5 minutes followed by rapid cooling for western blot application. If dissociating conditions are required, add reducing agent prior to heating.

**Storage Buffer**

In modified RIPA Lysis Buffer.

**Storage Instruction**

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

## Applications

- Western Blot
- Immunoprecipitation

[Protocol Download](#)

## Gene Info — LIMK2

Entrez GeneID [3985](#)

GeneBank Accession# [BC013051](#)

Protein Accession# [AAH13051](#)

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**

-

**Pathway**

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

**Disease**

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