

For Research Use Only

# LIMK2 Polyclonal antibody

Catalog Number: 12350-1-AP

9 Publications



## Basic Information

<b>Catalog Number:</b> 12350-1-AP	<b>GenBank Accession Number:</b> BC013051	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3985	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P53671	
<b>Isotype:</b> IgG	<b>Full Name:</b> LIM domain kinase 2	
<b>Immunogen Catalog Number:</b> AG3011	<b>Calculated MW:</b> 686 aa, 78 kDa	
	<b>Observed MW:</b> 70-80 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : NIH/3T3 cells, IHC : human stomach tissue,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

The family of LIM kinase (LIMK) includes two similar proteins, LIMK1 and LIMK2, that share overall identity of 53% with 75%, 55%, and 42% amino acid identity in the LIM, kinase, and PDZ domains, respectively. LIMK2 regulates actin cytoskeletal reorganization through phosphorylating and inactivating cofilin, an actin-depolymerizing factor of actin filaments. It also may associate with gamma-tubulin and play a role in mitotic spindle assembly. High levels of LIMK2 are evident in uterus, thymus, and spleen whereas lower levels are observed in brain, heart, liver, stomach, skeletal muscle, and testes according to the results of western blotting(PMID:16399995). It has 3 isoforms produced by alternative splicing of the molecular weight of 70-78 kDa. It can be detected a band of 47 kDa or 50-55 kDa in the testes because the antibody is recognizing the testis-specific variant of LIMK2 and the this difference could be due to species variation(PMID:17928627).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ming Xiong	31695759	Theranostics	IHC
Moyuan Deng	32424991	Adv Healthc Mater	WB
Yue Zhang	29970879	Cell Death Dis	WB,IHC

## Storage

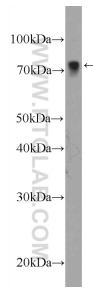
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

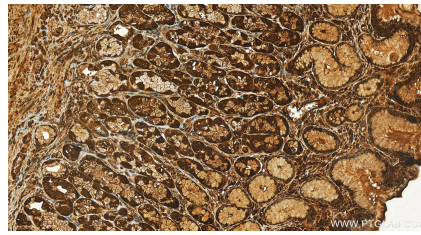
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## Selected Validation Data



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 12350-1-AP (LIMK2 Antibody) at dilution of 1:600 incubated at 4 degree celsius over night.



Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 12350-1-AP (LIMK2 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).