

## LIMK-1/2 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP05019
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human LIMK1/2. AA range:481-530
Mol wt	72601
Species reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	LIMK-1/2 Antibody
Synonyms	LIMK1; LIMK; LIM domain kinase 1; LIMK-1; LIMK2; LIM domain kinase 2; LIMK-2

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

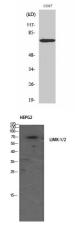
## Background

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 a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. LIM domain kinase 1 is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure. LIM domain kinase 1 also stimulates axon growth and may play a role in brain development. LIMK1 hemizygosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

## **Recommended Dilution**

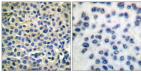
WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 ELISA: 1: 40000 Not yet tested in other applications.

## Images



Western Blot analysis of various cells using LIMK-1/2 Polyclonal Antibody diluted at 1:500

Western Blot analysis of HEPG2 using LIMK-1/2 Polyclonal Antibody. Antibody was diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using LIMK1/2 Antibody. The picture on the right is blocked with the synthesized peptide.

Western blot analysis of lysates from COS7 cells, using LIMK1/2 Antibody. The lane on the right is blocked with the synthesized peptide.

Western Blot analysis of HEPG2 using LIMK-1/2 Polyclonal Antibody. Antibody was diluted at 1:500

Storage

-20°C for one year

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