

## LIMK-1 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP05018
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human LIMK1. AA range:461-510
<b>Mol wt</b>	72232
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, IF, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	LIMK-1 Antibody
<b>Synonyms</b>	LIMK1; LIMK; LIM domain kinase 1; LIMK-1

**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 hemizyosity 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

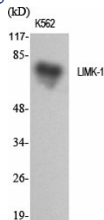
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

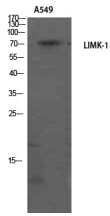
ELISA: 1: 20000

Not yet tested in other applications.

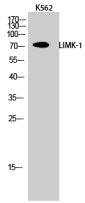
### Images



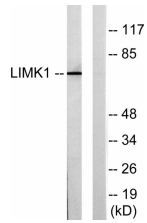
Western Blot analysis of various cells using LIMK-1 Polyclonal Antibody diluted at 1:500



Western Blot analysis of A549 using LIMK-1 Polyclonal Antibody. Antibody was diluted at 1:500



Western Blot analysis of K562 cells using LIMK-1 Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from mouse brain, using LIMK1 Antibody. The lane on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year

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