

LIMK-2 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP05022
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human LIMK2. AA range:461-510
Mol wt	72232
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	LIMK-2 Antibody
Synonyms	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. LIM domain kinase 2 by LIMK2 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.

Recommended Dilution

WB: 1: 500 - 1: 2000

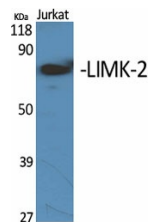
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

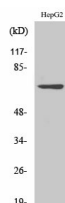
ELISA: 1: 40000

Not yet tested in other applications.

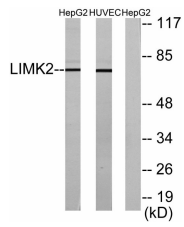
Images



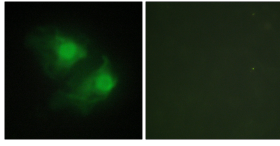
Western Blot analysis of various cells using LIMK-2 Polyclonal Antibody



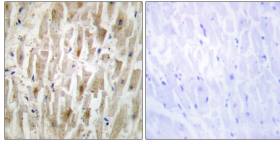
Western Blot analysis of HuvEc cells using LIMK-2 Polyclonal Antibody



Western blot analysis of lysates from HepG2 and HUVEC cells, using LIMK2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of HeLa cells, using LIMK2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human heart tissue, using LIMK2 Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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