Datasheet for ABIN3043411

anti-LIM Domain Kinase 1 antibody (C-Term)

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	LIM Domain Kinase 1 (LIMK1)
Binding Specificity:	AA 599-634, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIM Domain Kinase 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-LIMK1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human LIMK1 , different from the related mouse sequence by three amino acids, and from the related rat sequence by two amino acids.
Sequence:	KLEHWLETLR MHLAGHLPLG PQLEQLDRGF WETYRR
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-LIMK1 Antibody Picoband® (ABIN3043411). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband,

Product Details

	ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	LIM Domain Kinase 1 (LIMK1)
Alternative Name:	LIMK1 (LIMK1 Products)
Background:	Synonyms: LIM domain kinase 1,LIMK-1,2.7.11.1,LIMK1,LIMK, Tissue Specificity: Highest expression in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain, with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle. Background: LIM domain kinase 1?is an?enzyme?that in humans is encoded by the?LIMK1?gene. 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, a central?PDZ domain, and a?C-terminal?protein kinase?domain. LIMK1 is likely to be a component of an intracellular signaling pathway and may be involved in brain development.
Molecular Weight:	72 kDa
Gene ID:	3984
UniProt:	P53667
Pathways:	Caspase Cascade in Apoptosis, Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. "Entrez Gene: LIMK1 LIM domain kinase 1". 2. Osborne LR, Martindale D, Scherer SW, Shi XM, Huizenga J, Heng HH, Costa T, Pober B, Lew L, Brinkman J, Rommens J, Koop B, Tsui LC (Jan 1997). "Identification of genes from a 500-kb region at 7q11.23 that is commonly deleted in Williams syndrome patients". Genomics 36 (2): 328-36. 3. Tassabehji M, Metcalfe K, Fergusson WD, Carette MJ, Dore JK, Donnai D, Read AP, Pröschel C, Gutowski NJ, Mao X, Sheer D (Aug 1996). "LIM-kinase deleted in Williams syndrome". Nat. Genet. 13 (3): 272-3.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

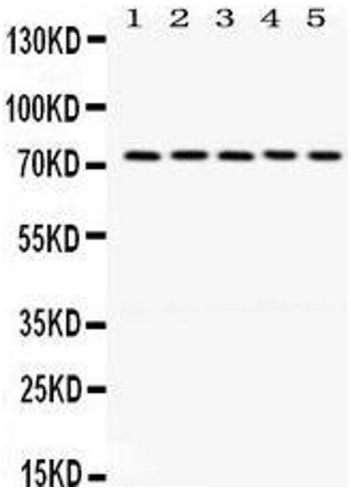
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:	Zhang, Gan, Zhou: "Immunohistochemical investigation of the correlation between LIM kinase 1 expression and development and progression of human ovarian carcinoma." in: **The Journal of international medical research**, Vol. 40, Issue 3, pp. 1067-73, (2013) (PubMed).



Western Blotting

Image 1.

