Datasheet for ABIN129635

anti-LIM Domain Kinase 1 antibody (AA 620-647)

1 Image

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Overview

Quantity:	100 µg
Target:	LIM Domain Kinase 1 (LIMK1)
Binding Specificity:	AA 620-647
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

Product Details

Purpose:	LIM Kinase Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminal region near aa 620-647 of human LIM kinase protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human LIM kinase protein.
Characteristics:	Synonyms: rabbit anti-LIM Kinase antibody, LIMK-1, LIM domain kinase 1 antibody, LIMK1 antibody
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	LIM Domain Kinase 1 (LIMK1)
Alternative Name:	LIMK1 (LIMK1 Products)
Background:	Background: LIM Kinase is also known as LIM-domain containing protein kinase, LIMK-1 and LIMK. 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 likely to be a component of an intracellular signaling pathway and may be involved in brain development.
Gene ID:	3984, 4505001
UniProt:	P53667
Pathways:	Caspase Cascade in Apoptosis, Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 73 kDa in size corresponding to LIM kinase by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500 - 1:2,000 ELISA Dilution: 1:8,000 - 1:36,000 IF Microscopy Dilution: User Optimized Other: User Optimized
Restrictions:	For Research Use only

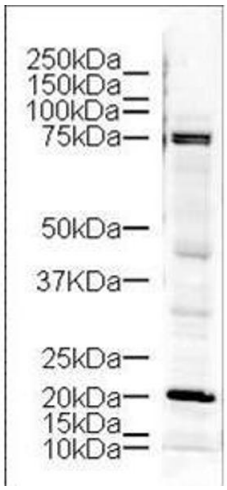
Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot using Affinity Purified anti-LIM Kinase antibody shows detection of a 73 kDa band corresponding to LIM kinase in lysates from mouse brain. Approximately 18 ?g of lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-LIM kinase antibody. The doublet band at ~75 kDa may represent phosphorylated and non-phosphorylated forms of the protein. The identity of the strong lower molecular weight band at approximately 20 kDa is unknown. Signal was detected using standard techniques.