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Datasheet for ABIN680518 anti-LIM Domain Kinase 1 antibody (AA 451-550)

3 Images

2 Publications



Overview

Quantity:	100 µL
Target:	LIM Domain Kinase 1 (LIMK1)
Binding Specificity:	AA 451-550
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIM Domain Kinase 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human LIMK1
lsotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Rabbit
Purification:	Purified by Protein A.
Target Details	
Target:	LIM Domain Kinase 1 (LIMK1)

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Alternative Name:	LIMK1 (LIMK1 Products)
Background:	Synonyms: LIMK, LIMK-1, LIM domain kinase 1, LIMK1
	Background: Serine/threonine-protein kinase that plays an essential role in the regulation of
	actin filament dynamics. Acts downstream of several Rho family GTPase signal transduction
	pathways. Activated by upstream kinases including ROCK1, PAK1 and PAK4, which
	phosphorylate LIMK1 on a threonine residue located in its activation loop. LIMK1 subsequently
	phosphorylates and inactivates the actin binding/depolymerizing factors cofilin-1/CFL1, cofilin
	2/CFL2 and destrin/DSTN, thereby preventing the cleavage of filamentous actin (F-actin), and
	stabilizing the actin cytoskeleton. In this way LIMK1 regulates several actin-dependent
	biological processes including cell motility, cell cycle progression, and differentiation.
	Phosphorylates TPPP on serine residues, thereby promoting microtubule disassembly.
	Stimulates axonal outgrowth and may be involved in brain development. Isoform 3 has a
	dominant negative effect on actin cytoskeletal changes. Required for atypical chemokine
	receptor ACKR2-induced phosphorylation of cofilin (CFL1).
Gene ID:	3984
UniProt:	P53667
Pathways:	Caspase Cascade in Apoptosis, Regulation of Cell Size, CXCR4-mediated Signaling Events
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL

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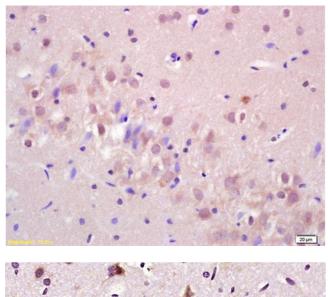
0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Buffer:

Handling

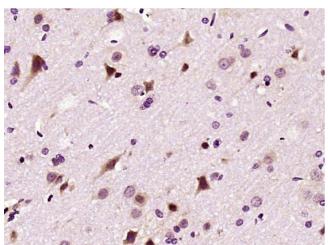
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Zhou, Liu, Luo, Zhou, Xia, Chen, Zhou, Zou, Cao, Cao: "MiR-20a inhibits cutaneous squamous
	cell carcinoma metastasis and proliferation by directly targeting LIMK1." in: Cancer biology &
	therapy , Vol. 15, Issue 10, pp. 1340-9, (2015) (PubMed).

Images



Immunohistochemistry

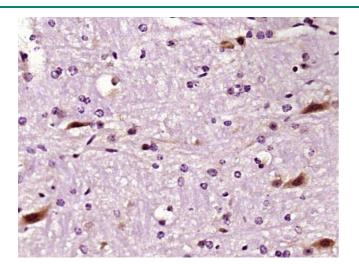
Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-LIMK1 Polyclonal Antibody, Unconjugated (ABIN680518) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded rat brain, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with LIMK1 Polyclonal Antibody (bs-2775R) at 1:400 overnight at 4°C, followed by a conjugated secondary and DAB staining.

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Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Paraformaldehyde-fixed, paraffin embedded mouse brain, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with LIMK1 Polyclonal Antibody (bs-2775R) at 1:400 overnight at 4°C, followed by a conjugated secondary and DAB staining.

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