

Datasheet for ABIN5006177

anti-LIM Domain Kinase 1 antibody (AA 365-470) (AbBy Fluor® 680)



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Overview

Quantity:	100 µL
Target:	LIM Domain Kinase 1 (LIMK1)
Binding Specificity:	AA 365-470
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIM Domain Kinase 1 antibody is conjugated to AbBy Fluor® 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human LIM kinase 1 + 2
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog,Sheep,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	LIM Domain Kinase 1 (LIMK1)
Alternative Name:	LIM kinase 1 (LIMK1 Products)

Target Details

Background:	Synonyms: LIM kinase 1+2, LIMK1+LIMK2, LIM domain kinase 1, LIM domain kinase 2, LIMK1, LIMK2,LIMK1_HUMAN, LIMK2_HUMAN. Background: LIMK 1 and 2 likely regulate aspects of the cytoskeleton, through control of the organization of actin filaments. They can phosphorylate an actin-binding protein, cofilin which binds to actin monomers and polymers and promotes the disassembly of actin filament.The phosphorylation of cofilin via LIMK inactivates this potential. LIMK1 is highly active in the brain and spinal chord, where it is believed to be involved in the development of nerve cells whilst LIMK2 is ubiquitously expressed in many adult tissues. LIMK1 may play an important role in areas of the brain that are responsible for processing visual-spatial information (visuospatial constructive cognition). These parts of the brain are important for visualizing an object as a set of parts and performing tasks such as writing, drawing, constructing models, and assembling puzzles. LIMK1 is specifically stimulated by Rac, one of the Rho family proteins, while LIMK2 activity is activated under the control of other Rho family members, Rho and Cdc42, suggesting that two distinct pathways exist in the Rho family driven actin cytoskeleton dynamics.
Pathways:	Caspase Cascade in Apoptosis , Regulation of Cell Size , CXCR4-mediated Signaling Events

Application Details

Application Notes:	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
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date: 12 months