.-online.com antibodies

Datasheet for ABIN392495 anti-MYLK antibody (N-Term)

4 Images

2 Publications



Overview

Quantity:	400 μL
Target:	MYLK
Binding Specificity:	AA 923-953, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MYLK antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Target:	MYLK
Target Details	
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Predicted Reactivity:	Rb
lsotype:	Ig Fraction
Clone:	RB03067
Immunogen:	This MLCK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 923-953 amino acids from the N-terminal region of human MLCK.

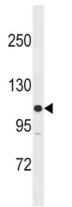
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN392495 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Target Details	
Alternative Name:	MLCK (MYLK Products)
Background:	MLCK, a member of the Ser/Thr protein kinase family, is a calcium/calmodulin-dependent enzyme responsible for smooth muscle contraction via phosphorylation of a specific serine in the N-terminus of myosin light chains (MLC), an event that facilitates myosin interaction with actin filaments. It is a central determinant in the development of vascular permeability and tissue edema formation. In the nervous system it has been shown to control the growth initiation of astrocytic processes in culture and to participate in transmitter release at synapses formed between cultured sympathetic ganglion cells. MLCK acts as a critical participant in signaling sequences that result in fibroblast apoptosis. Smooth muscle and non-muscle isozymes are expressed in a wide variety of adult and fetal tissues and in cultured endothelium with qualitative expression appearing to be neither tissue- nor development-specific. Non- muscle isoform 2 is the dominant splice variant expressed in various tissues. The Telokin isoform, which binds calmodulin, has been found in a wide variety of adult and fetal tissues. MLCK is probably down-regulated by phosphorylation. The protein contains 1 fibronectin type III domain and 9 immunoglobulin-like C2-type domains.
Molecular Weight:	210715
NCBI Accession:	NP_444253, NP_444254, NP_444255, NP_444256, NP_444259, NP_444260
UniProt: Application Details	Q15746
Application Notes:	WB: 1:1000. WB: 1:1000. WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN392495 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

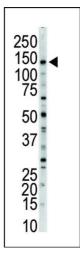
Handling	
Expiry Date:	6 months
Publications	
Product cited in:	Chen, Hou, Fan, Jin, Wang: "Sonic hedgehog protein regulates fibroblast growth factor 8 expression in metanephric explant culture from BALB/c mice: Possible mechanisms associated with renal morphogenesis." in: Molecular medicine reports , Vol. 14, Issue 4, pp. 2929-36, (2017) (PubMed).

Images



Western Blotting

Image 1. MLCK Antibody (M1) (ABIN392495 and ABIN2842065) western blot analysis in SK-BR-3 cell line lysates ($35 \mu g$ /lane).This demonstrates the MLCK antibody detected the MLCK protein (arrow).

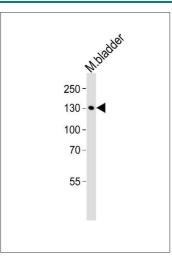


Western Blotting

Image 2. Western blot analysis of anti-MLCK-long Pab (ABIN392495 and ABIN2842065) in mouse brain tissue lysate. MLCK-long (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN392495 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Images



Western Blotting

Image 3. Western blot analysis of lysate from mouse bladder tissue lysate, using MLCKlong Antibody (M1) (ABIN392495 and ABIN2842065). (ABIN392495 and ABIN2842065) was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35 µg.

Please check the product details page for more images. Overall 4 images are available for ABIN392495.