Datasheet for ABIN5533210

anti-MYLK antibody (N-Term)

3 Images

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Overview

Quantity:	400 µL
Target:	MYLK
Binding Specificity:	AA 908-938, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MYLK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MLCK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 908-938 amino acids from the N-terminal region of human MLCK.
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis

Target Details

Target:	MYLK
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

Target Details

	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:	211 kDa
Gene ID:	4638
UniProt:	Q15746

Application Details

Application Notes:	For WB starting dilution is: 1:1000 For IHC-P starting dilution is: 1:50~100
Restrictions:	For Research Use only

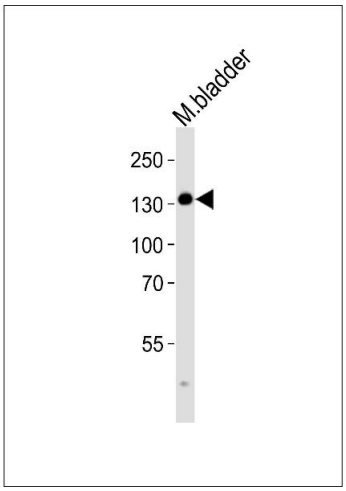
Handling

Format:	Liquid
Concentration:	2 mg/mL
Buffer:	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:	Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care

Handling

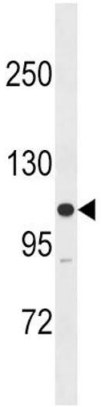
should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



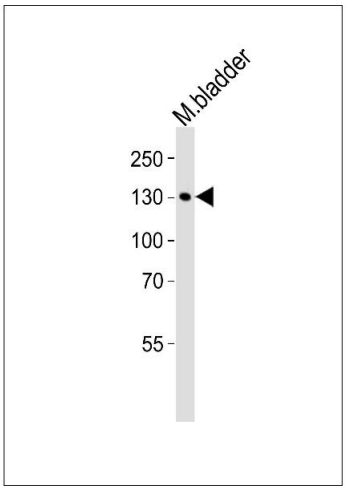
Western Blotting

Image 1. Western blot analysis of lysate from mouse bladder tissue lysate, using MLCKlong Antibody (M1) at 1:1000.



Western Blotting

Image 2. Western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstratesdetected the MLCK protein (arrow).



Western Blotting

Image 3. Western blot analysis of lysate from mouse bladder tissue lysate, using MLCKlong Antibody (M1) at 1:1000.