

Datasheet for ABIN1679591
anti-MYLK antibody



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	MYLK
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MYLK antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthesized peptide derived from human MYLK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	MYLK
Alternative Name:	MYLK (MYLK Products)
Background:	This gene, a muscle member of the immunoglobulin gene superfamily, encodes myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates

Target Details

myosin regulatory light chains to facilitate myosin interaction with actin filaments to produce contractile activity. This gene encodes both smooth muscle and nonmuscle isoforms. In addition, using a separate promoter in an intron in the 3' region, it encodes telokin, a small protein identical in sequence to the C-terminus of myosin light chain kinase, that is independently expressed in smooth muscle and functions to stabilize unphosphorylated myosin filaments. A pseudogene is located on the p arm of chromosome 3. Four transcript variants that produce four isoforms of the calcium/calmodulin dependent enzyme have been identified as well as two transcripts that produce two isoforms of telokin. Additional variants have been identified but lack full length transcripts. [provided by RefSeq, Jul 2008],AAT7, KRP, MLCK, MLCK1, MLCK108, MLCK210, MSTP083, MYLK1, smMLCK,Cell Biology & Developmental Biology,Cytoskeleton,Cytoskeleton_Actins,Cytoskeleton_Motor Proteins,Signal Transduction,MYLK

Molecular Weight:	200 kDa
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Gene ID:	4638
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UniProt:	Q15746
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Application Details

Application Notes:	WB,1:500 - 1:2000
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Restrictions:	For Research Use only
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Handling

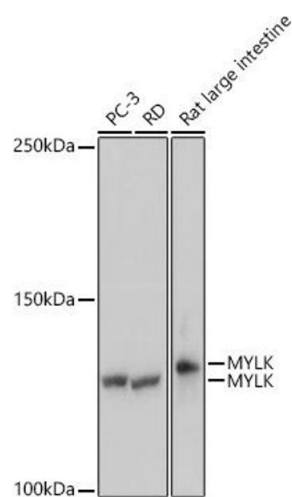
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
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Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using MYLK Rabbit mAb (ABIN1679591, ABIN3018162, ABIN3018163 and ABIN7101579) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.