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Datasheet for ABIN7193606
anti-MYLK antibody (AA 1375-1524)

9 Images

Overview

Quantity:	0.1 mg
Target:	MYLK
Binding Specificity:	AA 1375-1524
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MYLK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human MYLK (AA:1375-1524) expressed in E. coli.
Clone:	7F2B11
Isotype:	IgG1
Purification:	purified

Target Details

Target:	MYLK
Alternative Name:	MYLK (MYLK Products)
Background:	Description: This gene, a muscle member of the immunoglobulin gene superfamily, encodes

Target Details

myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates 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.

Aliases: KRP, AAT7, MLCK, MLCK1, MMIHS, MYLK1, s mMLCK, MLCK108, MLCK210, MSTP083

Molecular Weight:	210 kDa
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Gene ID:	4638
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Application Details

Application Notes:	WB:1:500 - 1:2000, IHC:1:200 - 1:1000, ICC:1:200 - 1:1000, FCM:1:200 - 1:400, ELISA:1:10000,
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Restrictions:	For Research Use only
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Handling

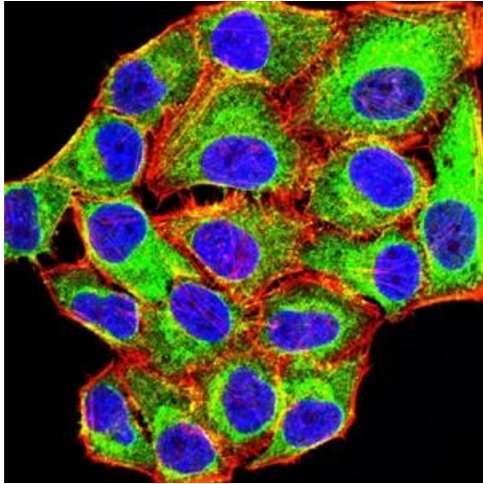
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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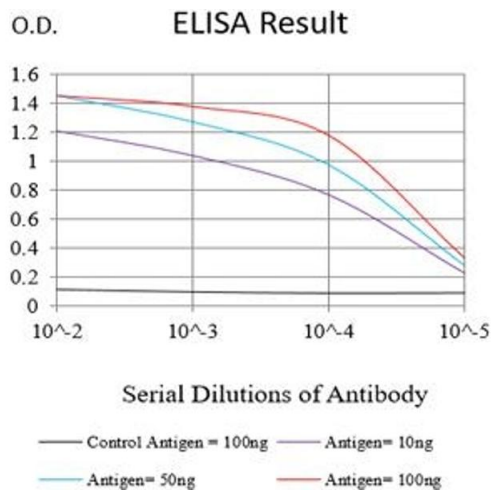
Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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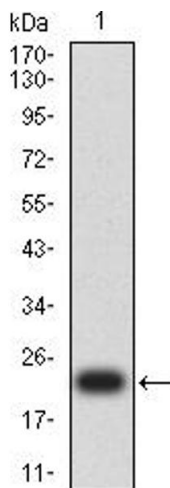
Immunofluorescence

Image 1. Immunofluorescence analysis of HeLa cells using MYLK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



ELISA

Image 2. Black line: Control Antigen (100 ng), Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng)



Western Blotting

Image 3. Western blot analysis using MYLK mAb against human MYLK (AA:1375-1524) recombinant protein. (Expected MW is 20.4 kDa)

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN7193606.