

## Myosin light chain kinase Conjugated Antibody

Catalog No: #C48846



Package Size: #C48846-Conjugated 50ul

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## Description

Product Name	Myosin light chain kinase Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Applications	WB, IF, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	deglutamylated form antibody DKFZp686l10125 antibody EC 2.7.11.18 antibody FLJ12216 antibody Kinase related protein antibody Kinase-related protein antibody KRP antibody MLCK antibody MLCK1 antibody MLCK108 antibody MLCK210 antibody MSTP083 antibody MYLK antibody MYLK_HUMAN antibody MYLK1 antibody Myosin light chain kinase antibody Myosin light polypeptide kinase antibody OTTHUMP00000180642 antibody OTTHUMP00000180643 antibody smMLCK antibody smooth muscle antibody Smooth muscle myosin light chain kinase antibody Telokin antibody
Accession No.	Swiss-Prot#:Q15746
Calculated MW	210 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Observed band size: 130-250 kDa Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## 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.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.