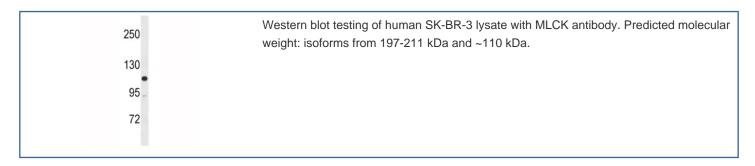


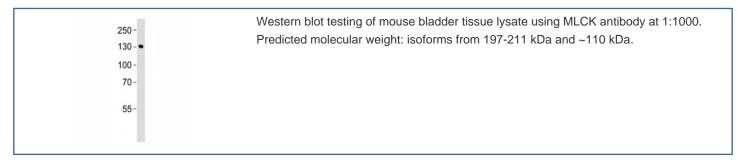
MLCK Antibody / Myosin light chain kinase / MYLK (F50923)

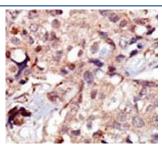
Catalog No.	Formulation	Size
F50923-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50923-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rabbit
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q15746
Applications	IHC (Paraffin) : 1:50-1:100 Western Blot : 1:1000
Limitations	This MLCK antibody is available for research use only.







Description

MLCK (MYLK), 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.

Application Notes

Titration of the MLCK antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 908-938 from the human protein was used as the immunogen for this MLCK antibody.

Storage

Aliquot the MLCK antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.