

Rabbit anti-Human, Mouse MLCK Polyclonal Antibody | anti-MLCK antibody

MLCK Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA311963	Rabbit	Human, Mouse	Flow Cytometry, Functional Assay, Immunohistochemistry, Immunocytochemistry

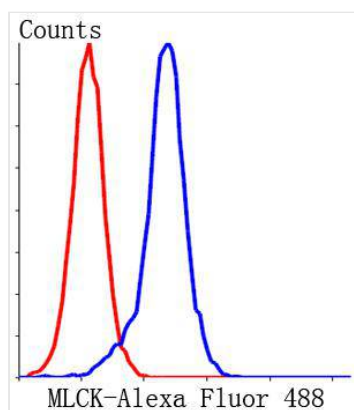
PRODUCT SYNONYMS

MLCK; Polyclonal Antibody; MLCK Antibody; deglutamylated form antibody; DKFZp686I10125 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; anti-MLCK antibody

PRODUCT SPECIFICATIONS

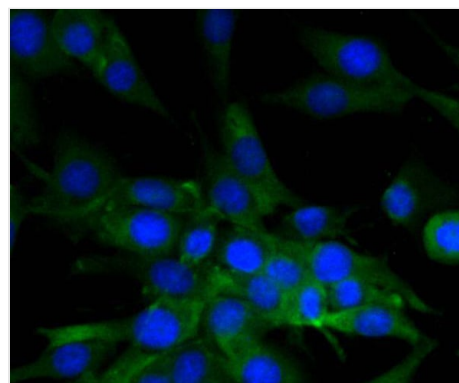
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Peptide affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-MLCK antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Immunogen	Peptide
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



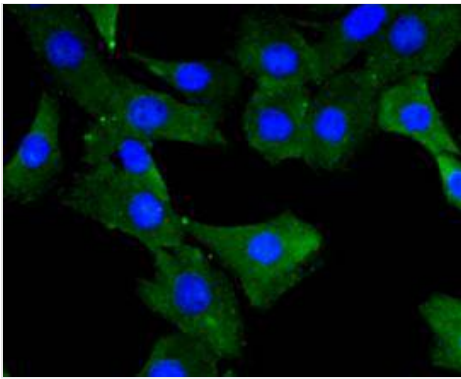
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of N2A cells with MLCK antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated Goat anti rabbit IgG was used as the secondary antibody.



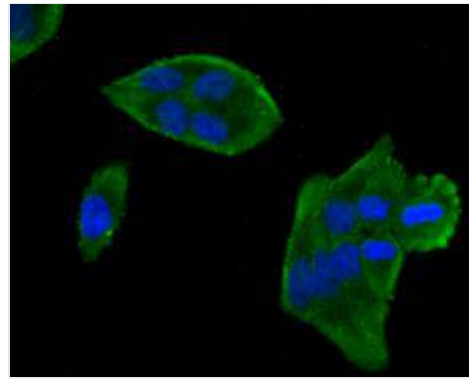
ICC (Immunocytochemistry)

Immunocytochemical staining of SHG-44 cells using anti-MLCK rabbit polyclonal antibody.



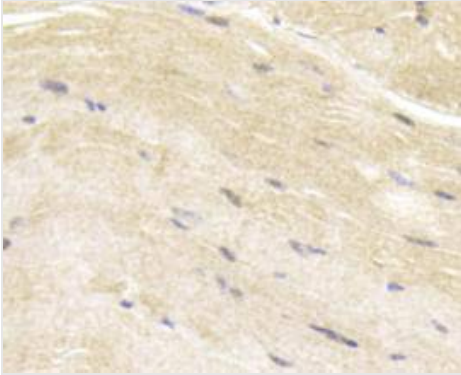
ICC (Immunocytochemistry)

Immunocytochemical staining of NIH/3T3 cells using anti-MLCK rabbit polyclonal antibody.



ICC (Immunocytochemistry)

Immunocytochemical staining of HeLa cells using anti-MLCK rabbit polyclonal antibody.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse smooth muscle tissue using anti-MLCK rabbit polyclonal antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MLCK antibody

The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) are a structurally related subfamily of serine/threonine kinases that includes CaMKI, CaMKII, CaMKIV and myosin light chain kinases (MYLK, also designated MLCK). The MYLK kinases phosphorylate myosin regulatory light chains to catalyze myosin interaction with actin filaments resulting in contractile activity. Non-muscle, smooth muscle and skeletal/cardiac muscle MYLK isoforms exist. The MYLK gene (also designated MYLK1) encodes both smooth muscle and non-muscle isoforms as well as telokin, a small C-terminal isoform expressed only in smooth muscle with the capacity to stabilize unphosphorylated myosin filaments. Multiple transcript variants are described for the MYLK gene. Smooth-muscle and non-muscle MYLK isoforms are expressed in a wide variety of adult and fetal tissues. The skeletal/cardiac muscle isoforms of MYLK are encoded by a separate gene, MYLK2 (also designated skMLCK). MYLK appears to be a target for PAKs (p21-activated kinases). PAK1 interaction with MYLK results in a decrease in MYLK activity and myosin light chain phosphorylation.

Product Categories/Family for anti-MLCK antibody

Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	116008192
NCBI GeneID	4638
NCBI Accession #	NP_444253.3
NCBI GenBank Nucleotide #	NM_053025.3
UniProt Accession #	Q15746; O95796; O95797; O95798; O95799; Q14844; Q16794; Q3ZCP9; Q5MY99; Q5MYA0; Q7Z4J0; Q9C0L5
Molecular Weight	210,715 Da

NCBI Official Full Name	myosin light chain kinase, smooth muscle isoform 1
NCBI Official Synonym Full Names	myosin light chain kinase
NCBI Official Symbol	MYLK
NCBI Official Synonym Symbols	KRP; AAT7; MLCK; MLCK1; MYLK1; smMLCK; MLCK108; MLCK210; MSTP083
NCBI Protein Information	myosin light chain kinase, smooth muscle; telokin; kinase-related protein; myosin, light polypeptide kinase; smooth muscle myosin light chain kinase
UniProt Protein Name	Myosin light chain kinase, smooth muscle
UniProt Gene Name	MYLK
UniProt Synonym Gene Names	MLCK; MLCK1; MYLK1; MLCK; smMLCK; KRP
UniProt Entry Name	MYLK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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