

Rabbit Myosin Light Chain Kinase Monoclonal Antibody | anti-MYLK antibody

Myosin Light Chain Kinase Antibody

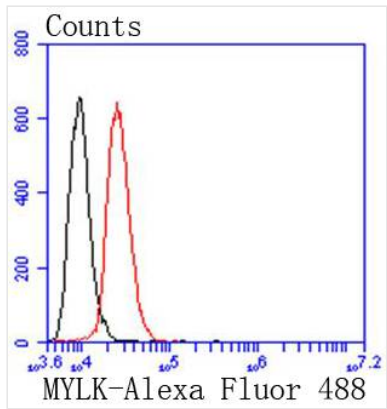
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30080	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

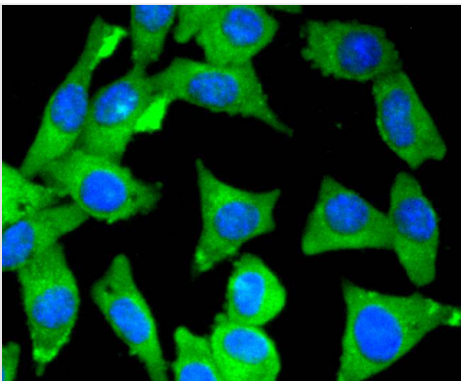
Myosin Light Chain Kinase; Monoclonal Antibody; Myosin Light Chain Kinase Antibody; deglutamylated form antibody; DKFZp686I10125 antibody; EC 2.7.11.18 antibody; FLJ12216 antibody; Kinase related protein antibody; Kinase-related protein antibody; KRP antibody; MLCK antibody; MLCK1 antibody; MLCK108 antibody; 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-MYLK antibody

PRODUCT SPECIFICATIONS

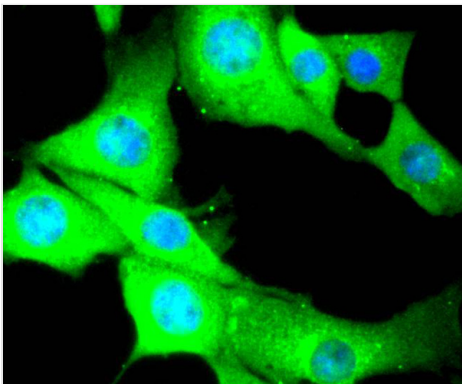
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	SU40-06
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-MYLK antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:2000-1:10,000 IHC: 1:100-1:500 ICC: 1:100-1:500 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.



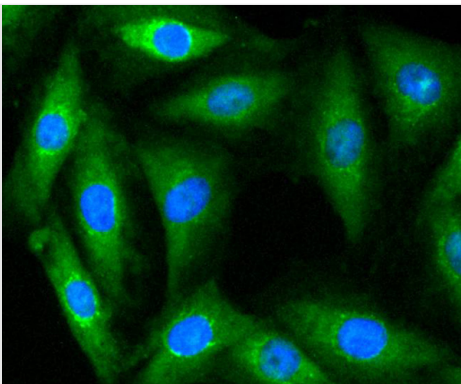
FCM (Flow Cytometry)
Flow cytometric analysis of SH-SY-5Y cells with MYLK antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



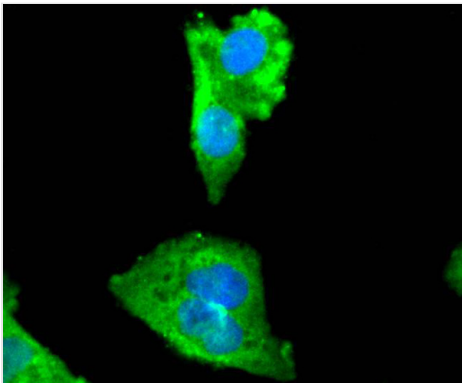
ICC (Immunocytochemistry)
ICC staining MYLK in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



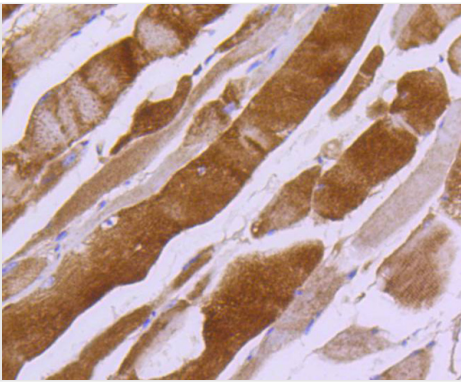
ICC (Immunocytochemistry)
ICC staining MYLK in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)
ICC staining MYLK in L6 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)
ICC staining MYLK in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded mouse smooth muscle tissue using anti-MYLK antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-MYLK antibody	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.
Product Categories/Family for anti-MYLK 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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/myosin-light-chain-kinase-antibody-clone-su40-06-western-blot-immunocytochemistry-immunofluorescence-immunohistochemistry-flow-cytometry-elisa/30080>