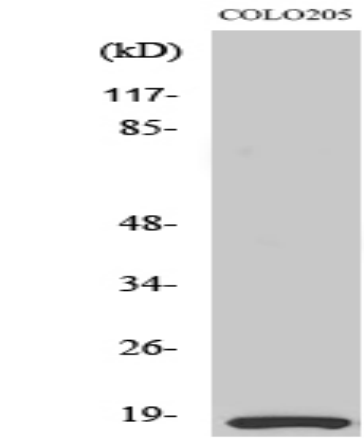
Best Tools for immunology Research

MRLC2 Polyclonal Antibody

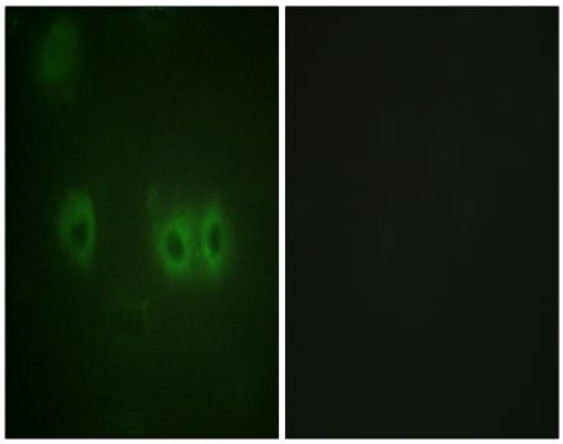
Catalog No :	YT2839
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Myosin Light Chain 2
Fields :	>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Vascular smooth muscle contraction;>>Axon guidance;>>Focal adhesion;>>Tight junction;>>Leukocyte transendothelial migration;>>Regulation of actin cytoskeleton;>>Oxytocin signaling pathway;>>Shigellosis;>>Salmonella infection
Gene Name :	MLRN
Protein Name :	Myosin regulatory light polypeptide 9
Human Gene Id :	10398/10627
Human Swiss Prot No :	P24844/P19105
Mouse Gene Id :	98932
Rat Gene Id :	296313
Rat Swiss Prot No :	Q64122
Immunogen :	The antiserum was produced against synthesized peptide derived from human MRLC2. AA range:3-52
Specificity :	MRLC2 Polyclonal Antibody detects endogenous levels of MRLC2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	18kD
Cell Pathway :	Vascular smooth muscle contraction;Focal adhesion;Tight junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;
Background :	Myosin, a structural component of muscle, consists of two heavy chains and four light chains. The protein encoded by this gene is a myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],
Function :	function:Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion.,miscellaneous:This chain binds calcium.,PTM:Phosphorylation increases the actin-activated myosin ATPase activity and thereby regulates the contractile activity. It is required to generate the driving force in the migration of the cells but not necessary for localization of myosin-2 at the leading edge.,similarity:Contains 3 EF-hand domains.,subunit:Myosin is an hexamer of 2 heavy chains and 4 light chains.,tissue specificity:Smooth muscle tissues and in some, but not all, nonmuscle cells.,
Subcellular Location :	Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Colocalizes with F-actin, MYH9 and PIEZO1 at the actomyosin cortex in myoblasts. .
Expression :	Smooth muscle tissues and in some, but not all, nonmuscle cells.

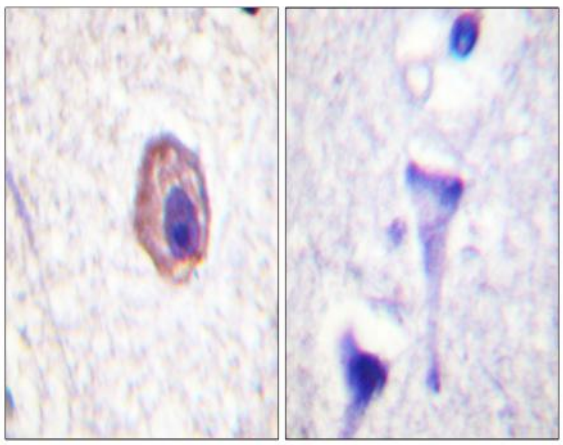
Products Images



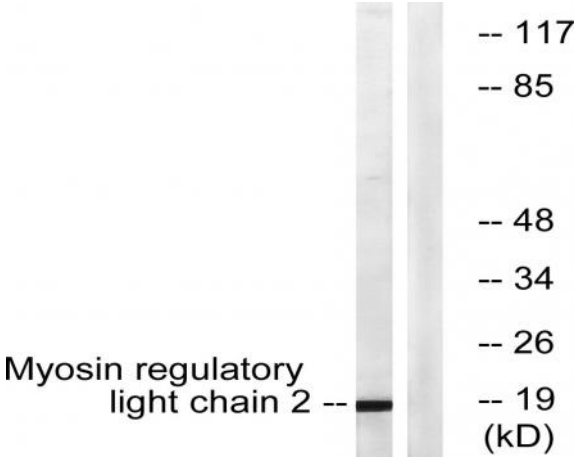
Western Blot analysis of various cells using MRLC2 Polyclonal Antibody



Immunofluorescence analysis of HUVEC cells, using MRLC2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MRLC2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using MRLC2 Antibody. The lane on the right is blocked with the synthesized peptide.