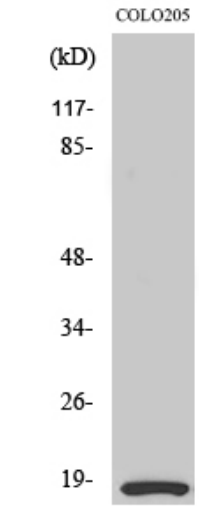
MRLC2 Polyclonal Antibody

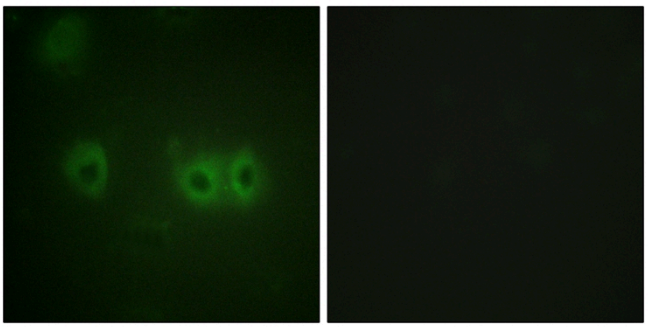
Catalog No	YP-Ab-03153
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	MLRN
Immunogen	The antiserum was produced against synthesized peptide derived from human MRLC2. AA range:3-52
Specificity	MRLC2 Polyclonal Antibody detects endogenous levels of MRLC2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	P24844;2 kDa myosin light chain;Human 2kDa myosin light chain (MLC2) mRNA complete cds;LC2;MGC355;MLC 2;MLC-2C;MLC2;MLY 9;MRLC1;MYL9; MYL9_HUMAN;Myosin light chain 9 regulatory;Myosin light polypeptide 9 regulatory;myosin regulatory light chain 1;Myosin regulatory light chain 2;Myosin regulatory light chain 2 smooth muscle isoform;Myosin regulatory light chain 9; Myosin regulatory light chain MRLC1;Myosin regulatory light polypeptide 9; Myosin RLC;Myosin vascular smooth muscle light chain 2;MYRL2; OTTHUMP3857;smooth muscle isoform;O1495;ML12B_HUMAN;MLC 2A;MLC-2;MLC-2a;MLC-B;MRLC2;MYL12B;MYLC2B;Myosin light chain 12B regulatory; Myosin regulatory light chain 12B;Myosin regulatory light chain 2-B;Myosin regulatory light chain 2 kDa;Myosin regulatory light chain MRLC2;myosin;light chain 12B;regulatory;OTTHUMP162244;OTTHUMP16586;OTTHUMP16587; OTTHUMP16588;SHUJUN-1;Myosin Light Chain 2;MLRN;20 kDa myosin light chain;LC20;Myosin regulatory light chain MRL
Observed Band	18kD
Calculated Molecular Weight	18kD
Cell Pathway	Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Colocalizes with F-actin, MYH9 and PIEZO1 at the actomyosin cortex in myoblasts. .

Tissue Specificity	Smooth muscle tissues and in some, but not all, nonmuscle cells.
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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

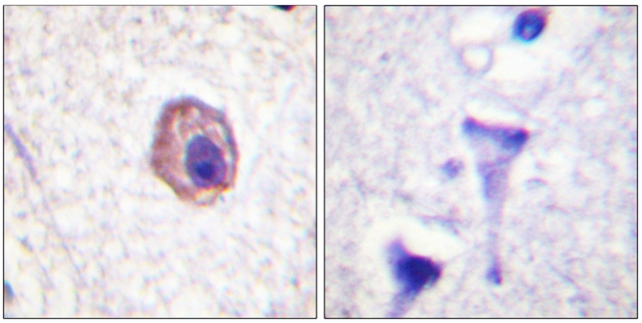
Products Images



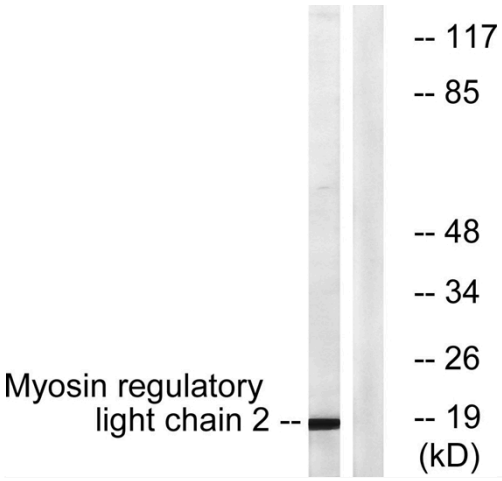
Western Blot analysis of various cells using MRLC2 Polyclonal Antibody



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.