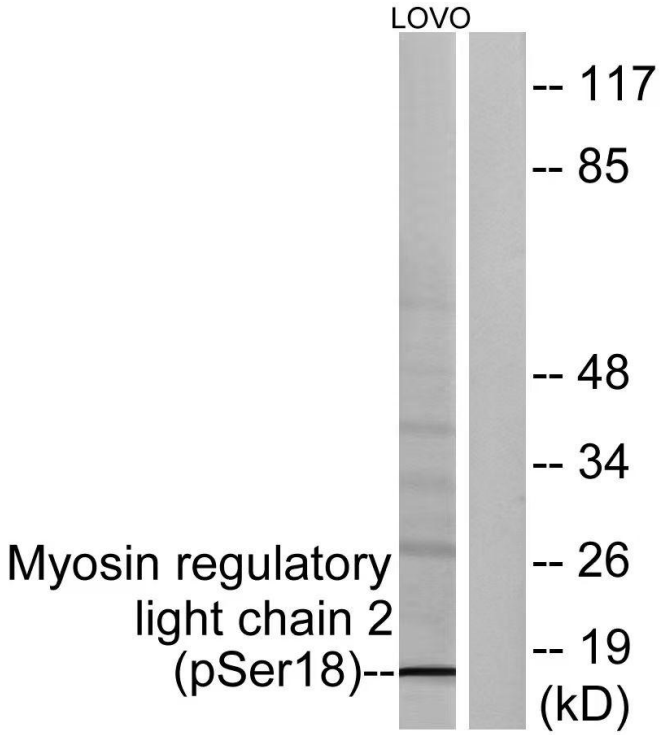
MYL9 (Phospho Ser20) Rabbit pAb

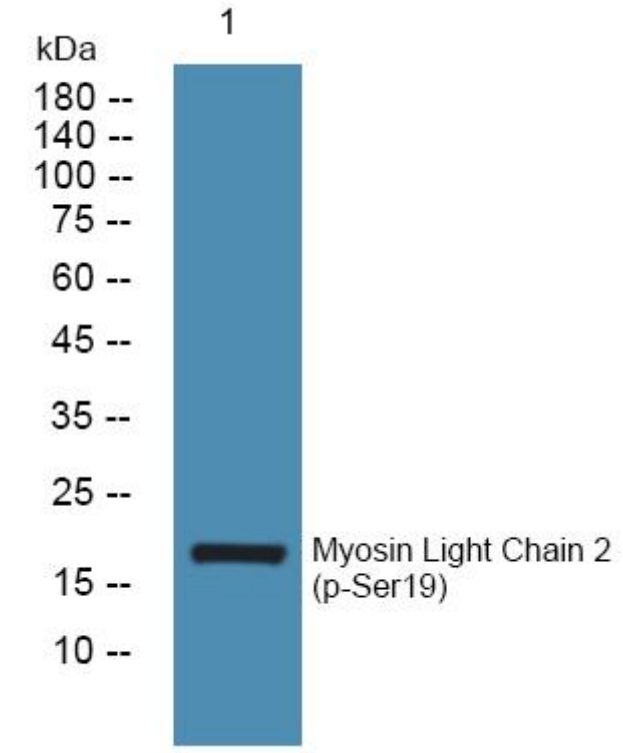
Catalog No	YP-Ab-19565
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB、IHC、IF、ELISA
Gene Name	MYL9
Immunogen	The antiserum was produced against synthesized peptide derived from human Myosin regulatory light chain 2 around the phosphorylation site of Ser18. AA range:3-52
Specificity	Phospho-MRLC2 (S20) Polyclonal Antibody detects endogenous levels of MRLC2 protein only when phosphorylated at S20.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):ATsNV
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	WB 1:500-1:2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:20000; Not yet tested in other applications. Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	MYL9;Myosin regulatory light polypeptide 9;MYL9 ; MLC2 ; MRLC1 ; MYRL2 ; Myosin regulatory light polypeptide 9 ; 20 kDa myosin light chain ; LC20 ; MLC-2C ; Myosin RLC ; Myosin regulatory light chain 2 ; smooth muscle isoform ; Myosin regulatory light chain 9 ; Myosin regulatory light chain MRL
Observed Band	
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.

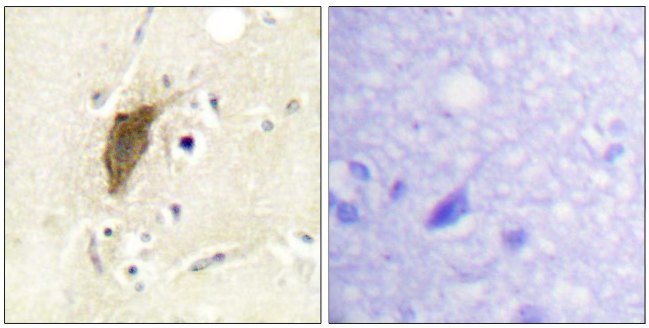
Products Images



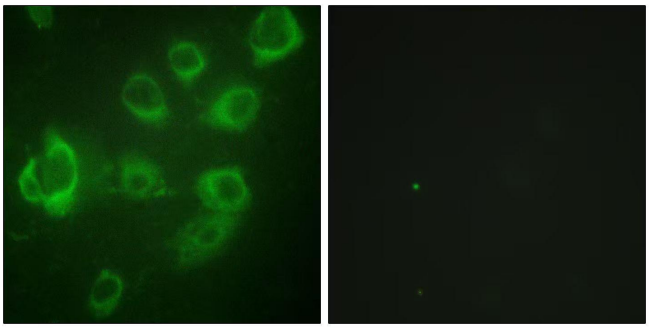
Western blot analysis of lysates from LOVO cells treated with H2O2 100uM 30', using Myosin regulatory light chain 2 (Phospho-Ser18) Antibody. The lane on the right is blocked with the phospho peptide.



Western blot analysis of lysates from PC12 cells, primary antibody was diluted at 1:1000, 4℃ over night



Immunohistochemistry analysis of paraffin-embedded human brain, using Myosin regulatory light chain 2 (Phospho-Ser18) Antibody. The picture on the right is blocked with the phospho peptide.



Immunofluorescence analysis of HUVEC cells, using Myosin regulatory light chain 2 (Phospho-Ser18) Antibody. The picture on the right is blocked with the phospho peptide.