

## MLC-2 (Phospho Thr17/Ser18) Rabbit pAb

CatalogNo: YP0957

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat

**Applications**

- IHC, IF, ELISA

**MW**

- 20kD (Calculated)

**Isotype**

- IgG

### Recommended Dilution Ratios

**IHC 1:100-1:300****ELISA 1:10000****IF 1:50-200**

### Storage

**Storage\***

-15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality**

Polyclonal

### Immunogen Information

**Immunogen**

The antiserum was produced against synthesized peptide derived from human MLC-2 around the phosphorylation site of Thr17 and Ser18. AA range: 5-54

**Specificity**

This antibody detects endogenous levels of MLC-2 only when phosphorylated at Thr17 or Ser18, and dually phosphorylated at two sites. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

## | Target Information

Gene name	MYL12A		
Protein Name	Myosin regulatory light chain 12A		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">10398</a> ; <a href="#">10627</a> ;	<a href="#">P19105</a> ; <a href="#">O14950</a> ; <a href="#">P24844</a> ;
	Mouse	<a href="#">67938</a> ; <a href="#">98932</a> ;	
	Rat	<a href="#">50685</a> ; <a href="#">296313</a> ;	<a href="#">P18666</a> ; <a href="#">Q64122</a> ;
Cellular Localization	stress fiber,cytosol,brush border,myosin complex,myosin II complex,Z disc,apical part of cell,extracellular exosome,		
Tissue specificity	Coronary artery,Epithelium,Placenta,Skeletal muscle,Skin,Testis,		
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.,		

## | Validation Data

## | Contact information

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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