

## MYPT1 (Phospho Thr853) Rabbit pAb

CatalogNo: YP0662 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IF, WB, IHC, ELISA

#### MW

- 130kD (Observed)

#### Isotype

- IgG

### 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.

### Recommended Dilution Ratios

**IF 1:50-200****WB 1:500-1:2000****IHC 1:100-1:300****ELISA 1:5000****Not yet tested in other applications**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human MYPT1 around the phosphorylation site of Thr853. AA range:621-670

## Specificity

Phospho-MYPT1 (T853) Polyclonal Antibody detects endogenous levels of MYPT1 protein only when phosphorylated at T853. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RStGV

## Target Information

**Gene name** PPP1R12A

**Protein Name** Protein phosphatase 1 regulatory subunit 12A

Organism	Gene ID	UniProt ID
Human	<a href="#">4659</a> ;	<a href="#">Q14974</a> ;
Mouse	<a href="#">17931</a> ;	<a href="#">Q9DBR7</a> ;
Rat	<a href="#">116670</a> ;	<a href="#">Q10728</a> ;

### Cellular Localization

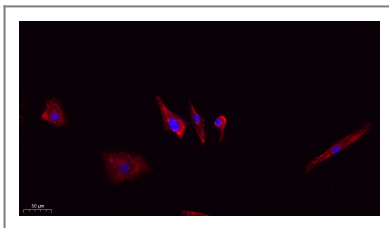
Cytoplasm . Cytoplasm, cytoskeleton, stress fiber . Also along actomyosin filaments. .

**Tissue specificity** Expressed in striated muscles, specifically in type 2a fibers (at protein level).

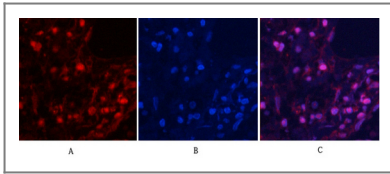
### Function

Function:Regulates myosin phosphatase activity.,PTM:Phosphorylated by CIT (Rho-associated kinase) (By similarity). Phosphorylated cooperatively by ROCK1 and CDC42BP on Thr-696. Phosphorylated on upon DNA damage, probably by ATM or ATR.,sequence Caution:Contaminating sequence. Potential poly-A sequence.,similarity:Contains 6 ANK repeats.,subcellular location:Along actomyosin filaments and stress fibers.,subunit:PP1 comprises a catalytic subunit, PPP1CA, PPP1CB or PPP1CC, and one or several targeting or regulatory subunits. PPP1R12A mediates binding to myosin. Interacts with ARHA and CIT (By similarity). Binds PPP1R12B, ROCK1 and IL16.,

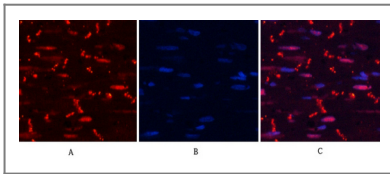
## Validation Data



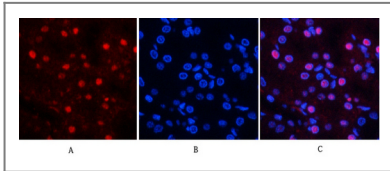
Immunofluorescence analysis of A549. 1,primary Antibody (red) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000 (room temperature, 50min).3, DAPI (blue) 10min.



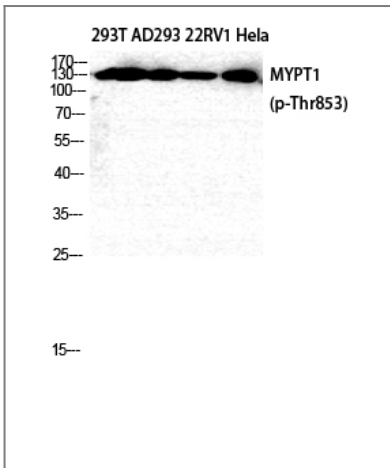
Immunofluorescence analysis of human-lung tissue. 1, MYPT1 (phospho Thr853) Polyclonal Antibody (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



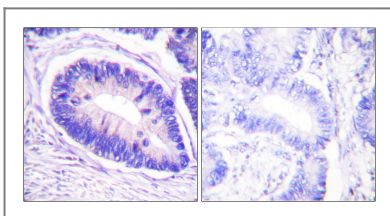
Immunofluorescence analysis of rat-heart tissue. 1, MYPT1 (phospho Thr853) Polyclonal Antibody (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



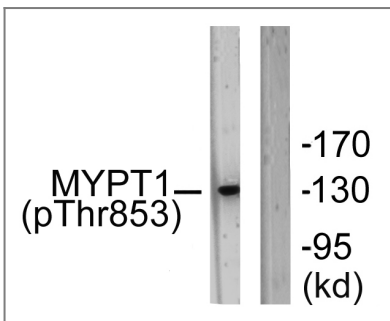
Immunofluorescence analysis of rat-kidney tissue. 1, MYPT1 (phospho Thr853) Polyclonal Antibody (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western Blot analysis of 293T AD293 22RV1 HELA cells using Phospho-MYPT1 (T853) Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using MYPT1 (Phospho-Thr853) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells, using MYPT1 (Phospho-Thr853) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**MYPT1 (Phospho Thr853) Rabbit pAb**

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