

MYPT1/2 (Phospho Ser668/618) Rabbit pAb

CatalogNo: YP1819 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, WB

MW

- 130kD (Observed)

Storage

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

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

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human MYPT1/2 (Phospho Ser668/Ser618)

Specificity This antibody detects endogenous levels of MYPT1 only when phosphorylated at Human:S668/S618, Mouse:S666/S617, Rat:S669..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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RRsYL

| Target Information

Gene name PPP1R12A MBS MYPT1 MYPT2

Protein Name Protein phosphatase 1 regulatory subunit 12A (Myosin phosphatase-targeting subunit 1) (Myosin phosphatase target subunit 1) (Protein phosphatase myosin-binding subunit)

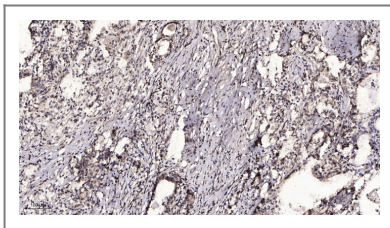
Organism	Gene ID	UniProt ID
Human	4659;	Q14974;
Mouse	17931;	Q9DBR7;
Rat	116670;	Q10728;

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

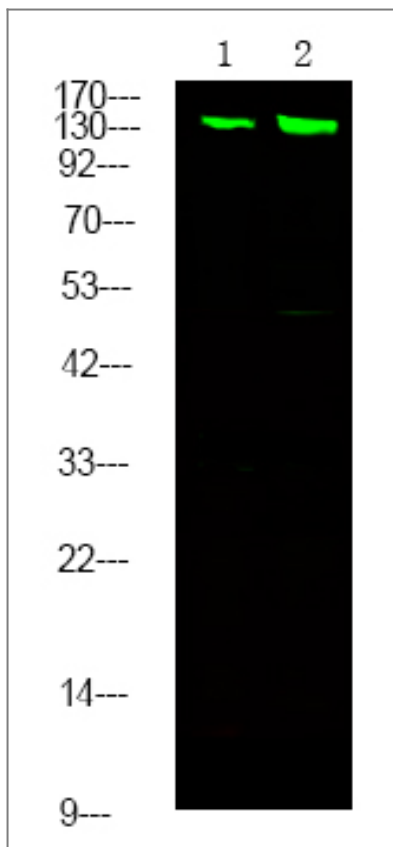
Tissue specificity Expressed in striated muscles , specifically in type 2a fibers (at protein level) .

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



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).



Western Blot analysis of 1 HeLa cell, 2 Serum-free treated ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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