



## MYPT1 (phospho-Ser507) rabbit pAb

| Catalog No         | BYab-03634   |
|--------------------|--|
| Isotype            | lgG  |
| Reactivity         | Human;Mouse;Rat  |
| Applications       | WB;IHC   |
| Gene Name          | PPP1R12A MBS MYPT1   |
| Protein Name       | MYPT1 (Ser507)   |
| Immunogen          | Synthesized phosho peptide around human MYPT1 (Ser507)   |
| Specificity        | This antibody detects endogenous levels of Human Mouse Rat MYPT1 (phospho-Ser507)  |
| 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 serum by affinity-chromatography using specific immunogen.  |
| Dilution           | WB 1:500-2000;IHC-p 1:50-300   |
| Concentration      | 1 mg/ml  |
| Purity             | ≥90%   |
| Storage Stability  | -20°C/1 year   |
| Synonyms           | Protein phosphatase 1 regulatory subunit 12A (Myosin phosphatase-targeting subunit 1) (Myosin phosphatase target subunit 1) (Protein phosphatase myosin-binding subunit)   |
| Observed Band      | 130kD  |
| Cell Pathway       | 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<br>(Rho-associated kinase) (By similarity). Phosphorylated cooperatively by ROCK1<br>and CDC42BP on Thr-696. Phosphorylated on upon DNA damage, probably by<br>ATM or ATR.,sequence caution:Contaminating sequence. Potential poly-A<br>sequence.,similarity:Contains 6 ANK repeats.,subcellular location:Along<br>actomyosin filaments and stress fibers.,subunit:PP1 comprises a catalytic subunit,<br>PPP1CA, PPP1CB or PPP1CC, and one or several targeting or regulatory<br>subunits. PPP1R12A mediates binding to myosin. Interacts with ARHA and CIT<br>(By similarity). Binds PPP1R12B, ROCK1 and IL16., |

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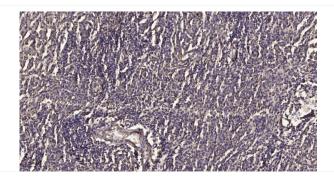
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| Background                | Myosin phosphatase target subunit 1, which is also called the myosin-binding<br>subunit of myosin phosphatase, is one of the subunits of myosin phosphatase.<br>Myosin phosphatase regulates the interaction of actin and myosin downstream of<br>the guanosine triphosphatase Rho. The small guanosine triphosphatase Rho is<br>implicated in myosin light chain (MLC) phosphorylation, which results in<br>contraction of smooth muscle and interaction of actin and myosin in nonmuscle<br>cells. The guanosine triphosphate (GTP)-bound, active form of RhoA (GTP.RhoA)<br>specifically interacted with the myosin-binding subunit (MBS) of myosin<br>phosphatase, which regulates the extent of phosphorylation of MLC.<br>Rho-associated kinase (Rho-kinase), which is activated by GTP. RhoA,<br>phosphorylated MBS and consequently inactivated myosin phosphatase.<br>Overexpression of RhoA or activated RhoA in NIH 3T3 cells increased phosph |
|---------------------------|---|
| 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**



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

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