

Product Name: MYPT1 Rabbit Polyclonal Antibody

Catalog #: APRab14355

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA

Reactivity Human, Mouse, Rat, Monkey

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000

Molecular Weight 115kDa

Antigen Information

Gene Name PPP1R12A

PPP1R12A; MBS; MYPT1; Protein phosphatase 1 regulatory subunit 12A; Myosin

Alternative Names phosphatase-targeting subunit 1; Myosin phosphatase target subunit 1; Protein

phosphatase myosin-binding subunit

 Gene ID
 4659.0

 SwissProt ID
 O14974

The antiserum was produced against synthesized peptide derived from human MYPT1. AA

Immunogen range:621-670



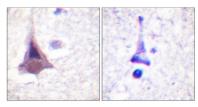
Background

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

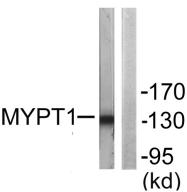
Research Area

Vascular smooth muscle contraction; Focal adhesion; Long-term potentiation; Regulates Actin and Cytoskeleton;

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MYPT1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from NIH/3T3 cells, using MYPT1 Antibody. The lane on the right is blocked with the synthesized peptide.

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