

Nur für Forschungszwecke

# MYPT1 Monoklonaler Antikörper

Katalog-Nr.:66506-1-Ig **1 Publikationen**



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66506-1-Ig	<b>GenBank-Zugangsnummer:</b> BC111752	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 150ul , Konzentration: 1500 µg/ml von4659 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 4659	<b>CloneNo.:</b> 2A1A9
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> protein phosphatase 1, regulatory (inhibitor) subunit 12A	<b>Empfohlene Verdünnungen:</b> WB 1:2000-1:12000 IF 1:200-1:800
<b>Isotyp:</b> IgG3	<b>Berechnete Masse:</b> 1030 aa, 115 kDa	
<b>Immunogen Katalognummer:</b> AG17496	<b>Beobachtete Masse:</b> 115 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> IF, WB, ELISA	<b>Positivkontrollen:</b> WB : Raji-Zellen, HEK-293-Zellen, HeLa-Zellen, Jurkat-Zellen, K-562-Zellen IF : HeLa-Zellen,
<b>In Publikationen genannte Anwendungen:</b> WB	
<b>Getestete Reaktivität:</b> Human, Maus, Ratte	
<b>Zitierte Arten:</b> Ratte	

## Hintergrundinformationen

Myosin phosphatase target subunit 1(MYPT1), which is also called PPP1R12A, is one of the subunits of myosin phosphatase. Myosin phosphatase regulates the interaction of actin and myosin downstream of the guanosine triphosphatase Rho. The small guanosine 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 guanosine 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 RhoA or activated RhoA in NIH 3T3 cells increased phosphorylation of MBS and MLC. Thus, Rho appears to inhibit myosin phosphatase through the action of Rho-kinase. Phosphorylation of MYPT1 at Thr696 and Thr853 results in phosphatase inhibition and cytoskeletal reorganization.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Sheng Chang	34634287	Brain Res	WB

## Lagerung

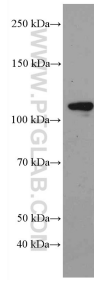
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
**Aliquotieren ist nicht notwendig bei -20°C Lagerung**

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

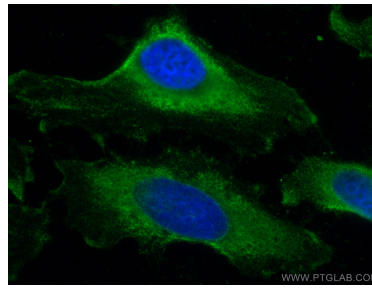
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E: proteintech@ptglab.com  
W: ptglab.com

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## Ausgewählte Validierungsdaten



Raji cells were subjected to SDS PAGE followed by western blot with 66506-1-Ig (MYPT1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using MYPT1 antibody (66506-1-Ig, Clone: 2A1A9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).