À des fins de recherche uniquement

Anticorps Monoclonal anti-MYPT1

Numéro de catalogue:66506-1-Ig 1 Publications

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Informations de base

Numéro de catalogue:
66506-1-Ig

Taille:
150ul , Concentration: 1500 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Hôte:
Mouse

Isotype:
IgG3

Immunogen Catalog Number:
AG17496

Numéro d'acquisition GenBank:
BC111752

Identification du gène (NCBI):
4659

Nom complet:
protein phosphatase 1, regulatory (inhibitor) subunit 12A

MW calculé
1030 aa, 115 kDa

MW observés:
115 kDa

Méthode de purification:
Purification par protéine A

CloneNo.:
2A1A9

Dilutions recommandées:
WB 1:2000-1:12000
IF 1:200-1:800

Applications

Applications testées:
IF, WB, ELISA

Demandes citées:
WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
rat

Contrôles positifs:

WB : cellules Raji, cellules HEK-293, cellules HeLa, cellules Jurkat, cellules K-562

IF : cellules HeLa,

Informations générales

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.

Publications notables

Autrice	Pubmed ID	Journal	Application
Sheng Chang	34634287	Brain Res	WB

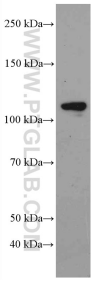
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

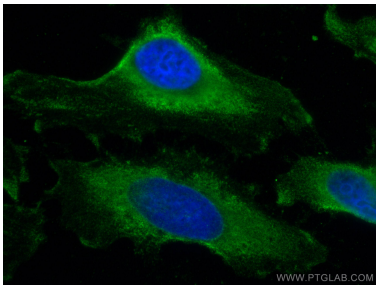
***** Les 20ul contiennent 0,1% de BSA.**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Données de validation sélectionnées



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).