À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-MYPT1

proteintech®
Antibodies | ELISA kits | Proteins
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Numéro de catalogue:22117-1-AP Phare 11 Publications

Informations de base

Numéro de catalogue:
22117-1-AP

Taille:
150ul , Concentration: 950 μg/ml by Nanodrop and 640 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

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:
130 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:3000-1:10000
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Applications testées:
IF, IHC, IP, WB, ELISA

Demandes citées:
IF, IHC, IP, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, porc, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules HEK-293, cellules C2C12, cellules C6, cellules HeLa, cellules Jurkat, cellules MCF-7

IP : cellules HEK-293,

IHC : tissu cardiaque humain, tissu de gliome humain, tissu de muscle squelettique humain

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 NIH3T3 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. Several transcript variants encoding different isoforms have been found for this gene.

Publications notables

Autrice	Pubmed ID	Journal	Application
Qingling Xie	36106411	FEBS Open Bio	WB
Dapeng Chen	27932979	Front Pharmacol	WB
Chen Jihua	31844679	Open Med (Wars)	IHC

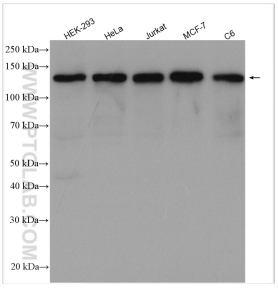
Stockage

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

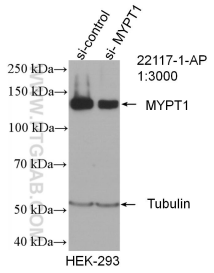
***** Les 20ul contiennent 0,1% de BSA.**

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

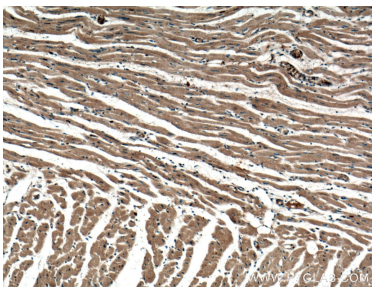
Données de validation sélectionnées



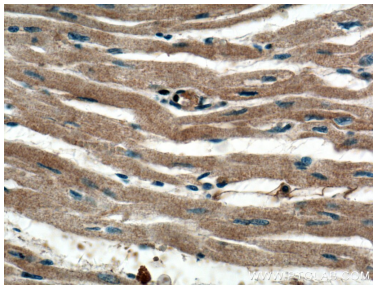
Various lysates were subjected to SDS PAGE followed by western blot with 22117-1-AP (MYPT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



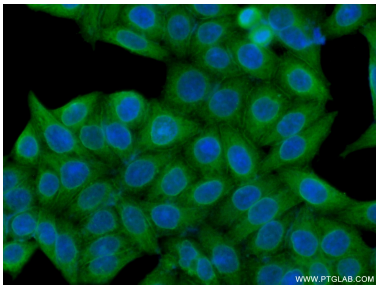
WB result of MYPT1 antibody (22117-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MYPT1 transfected HEK-293 cells.



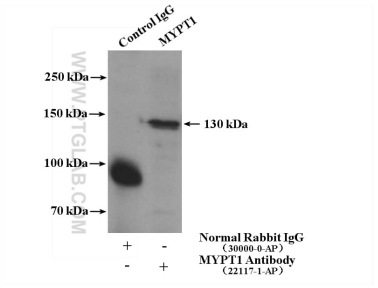
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 22117-1-AP (MYPT1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 22117-1-AP (MYPT1 antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 22117-1-AP (MYPT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-MYPT1 (IP:22117-1-AP, 4ug; Detection:22117-1-AP 1:1000) with HEK-293 cells lysate 4000 ug.