

Nur für Forschungszwecke

MYPT1 Polyklonaler Antikörper

Katalog-Nr.: 22117-1-AP

Vorgestelltes Produkt

11 Publikationen



Allgemeine Informationen

Katalog-Nr.:	22117-1-AP	GenBank-Zugangsnummer:	BC111752
Größe:	150ul , Konzentration: 950 µg/ml von Nanodrop und 640 µg/ml durch die Bradford-Methode mit BSA als Standard;	GenID (NCBI):	4659
Wirt:	Kaninchen	Vollständiger Name:	protein phosphatase 1, regulatory (inhibitor) subunit 12A
Isotyp:	IgG	Berechneté Masse:	1030 aa, 115 kDa
Immunogen Katalognummer:	AG17496	Beobachteté Masse:	130 kDa

Anwendungen

Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, IHC, IP, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Hausschwein, Human, Maus, Ratte

Positivkontrollen:

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

IP : HEK-293-Zellen,

IHC : humanes Herzgewebe, humanes Gliomgewebe, humanes Skelettmuskelgewebe

IF : HeLa-Zellen,

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

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 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.

Bemerkenswerte Veröffentlichungen

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

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.

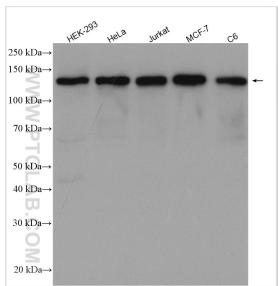
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

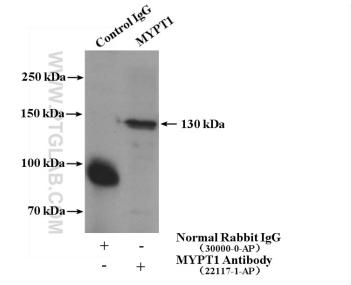
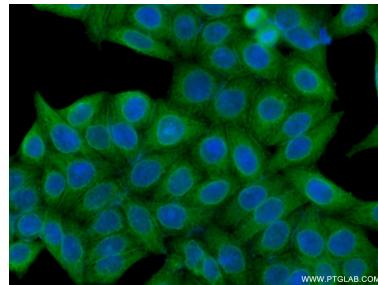
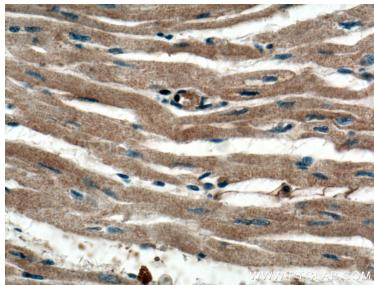
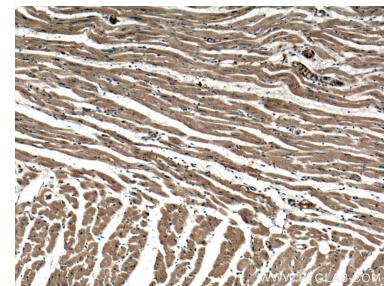
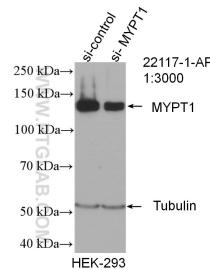
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Ausgewählte Validierungsdaten



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.



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