BT LAB
Bioassay Technology Laboratory
Optimize Your Research

MYPT1(Phospho Thr853) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07111
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	The antiserum was produced against synthesized peptide derived from human MYPT1 around the phosphorylation site of Thr853. AA range:621-670
Mol wt	115281
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	IF, ICC, WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	Protein phosphatase 1 regulatory subunit 12A
Synonyms	Protein phosphatase 1 regulatory subunit 12A; PPP1R12A; MBS; MYPT1; Protein phosphatase 1 regulatory subunit 12A; Myosin phosphatase-targeting subunit 1; Myosin phosphatase target subunit 1; Protein phosphatase myosin-binding subunit

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 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 phosph

Recommended Dilution

WB: 1: 500 - 1: 2000

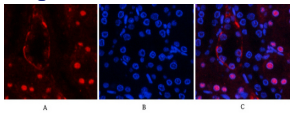
IHC-p: 1: 100 - 1: 300

IF: 1: 50 - 1: 200

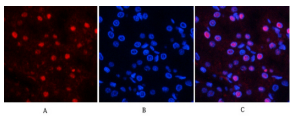
ELISA: 1: 5000

Not yet tested in other applications.

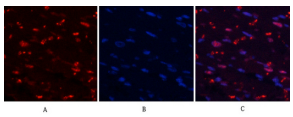
Images



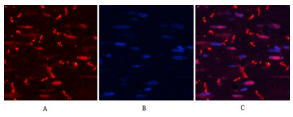
Immunofluorescence analysis of human-lung tissue. 1,MYPT1 (phospho Thr853) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



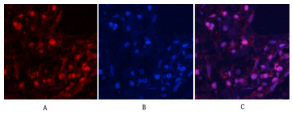
Immunofluorescence analysis of human-lung tissue. 1,MYPT1 (phospho Thr853) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



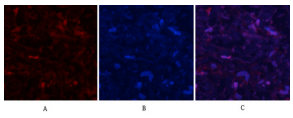
Immunofluorescence analysis of rat-heart tissue. 1,MYPT1 (phospho Thr853) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



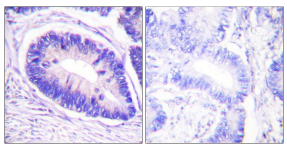
Immunofluorescence analysis of rat-heart tissue. 1,MYPT1 (phospho Thr853) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



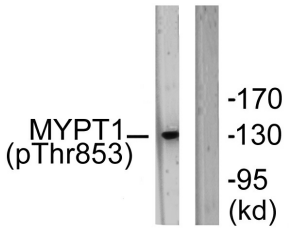
Immunofluorescence analysis of rat-kidney tissue. 1,MYPT1 (phospho Thr853) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



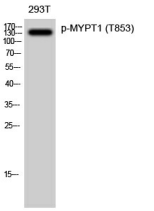
Immunofluorescence analysis of rat-kidney tissue. 1,MYPT1 (phospho Thr853) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



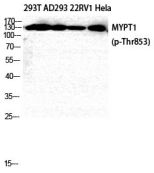
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using MYPT1 (Phospho-Thr853) Antibody. The picture on the right is blocked with the phospho peptide.



Western Blot analysis of 293T cells using Phospho-MYPT1 (T853) Polyclonal Antibody diluted at 1:2000



Western Blot analysis of 293T AD293 22RV1 HELA cells using Phospho-MYPT1 (T853) Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from NIH/3T3 cells, using MYPT1 (Phospho-Thr853) Antibody. The lane on the right is blocked with the phospho peptide.

Storage

-20°C for 1 year

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com