

MYPT1 (phospho Thr696) rabbit pAb

Cat No.:ES6324

For research use only

Overview

Product Name	MYPT1 (phospho Thr696) rabbit pAb	
Host species	Rabbit	
Applications	WB;IHC;IF;ELISA	
Species Cross-Reactivity	Human;Mouse;Rat	
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300.	
	Immunofluorescence: 1/200 - 1/1000. ELISA:	
	1/10000. Not yet tested in other applications.	
Immunogen	The antiserum was produced against synthesized	
C	peptide derived from human MYPT1 around the	
	phosphorylation site of Thr696. AA range:661-710	
Specificity	Phospho-MYPT1 (T696) Polyclonal Antibody detects	
	endogenous levels of MYPT1 protein only when	
	phosphorylated at T696.	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and	
	0.02% sodium azide.	
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.	
Protein Name	Protein phosphatase 1 regulatory subunit 12A	
Gene Name	PPP1R12A	
Cellular localization	Cytoplasm . Cytoplasm, cytoskeleton, stress fiber .	
	Also along actomyosin filaments.	
Purification	The antibody was affinity-purified from rabbit	
	antiserum by affinity-chromatography using	
	epitope-specific immunogen.	
Clonality	Polyclonal	
Concentration	1 mg/ml	
Observed band	-	
Human Gene ID	4659	
Human Swiss-Prot Number	014974	
Alternative Names	PPP1R12A; MBS; MYPT1; Protein phosphatase 1	
	regulatory subunit 12A; Myosin	
	phosphatase-targeting subunit 1; Myosin	
	phosphatase target subunit 1; Protein phosphatase	
	myosin-binding subunit	



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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

Immunofluorescence analysis of A549 cells, using MYPT1 (Phospho-Thr696) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MYPT1 (Phospho-Thr696) Antibody. The picture on the right is blocked with the phospho peptide.





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