

For Research Use Only

Phospho-MYPT1 (Thr853) Recombinant monoclonal antibody

Catalog Number: 87088-1-RR



Basic Information

Catalog Number: 87088-1-RR	GenBank Accession Number: BC111752	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4659	CloneNo.: 252239E11
Source: Rabbit	UNIPROT ID: O14974	Recommended Dilutions: WB: 1:1000-1:4000
Isotype: IgG	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 12A	
	Calculated MW: 1030 aa, 115 kDa	
	Observed MW: 140 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, C6 cells
Species Specificity: human, rat	

Background Information

Myosin phosphatase target subunit 1(MYPT1), which is also called PPP1R12A, is one of the subunits of myosin phosphatase. Phospho-MYPT1 (Thr853) is a phosphorylated form of MYPT1 (myosin phosphatase target subunit 1) at threonine 853. This phosphorylation event is associated with the regulation of smooth muscle contraction and cell motility. The Rho-associated protein kinase (ROCK) is known to phosphorylate MYPT1 at Thr853, which in turn suppresses the activity of myosin light chain phosphatase (MLCP), leading to an increase in myosin light chain phosphorylation and subsequent smooth muscle contraction. (PMID: 24712327)

Storage

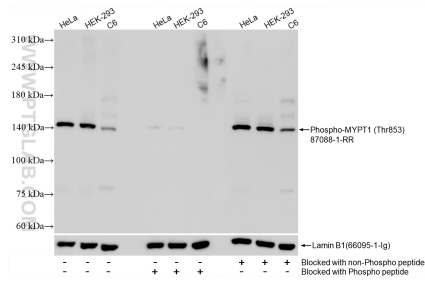
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 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)
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Selected Validation Data



HeLa cells, HEK-293 cells and C6 cells were subjected to SDS PAGE followed by western blot with 87088-1-RR (Phospho-MYPT1 (Thr853) antibody) blocked with BSA only, Phospho-MYPT1 (Thr853) peptide or non-Phospho peptide at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 antibody (66095-1-Ig) as loading control.