

For Research Use Only

# Phospho-MYPT1 (Thr853) Recombinant monoclonal antibody

Catalog Number:87088-1-RR



## Basic Information

Catalog Number:

87088-1-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC111752

GeneID (NCBI):

4659

UNIPROT ID:

O14974

Full Name:

protein phosphatase 1, regulatory (inhibitor) subunit 12A

Calculated MW:

1030 aa, 115 kDa

Observed MW:

140 kDa

Purification Method:

Protein A purification

CloneNo.:

252239E11

Recommended Dilutions:

WB: 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, rat

Positive Controls:

WB : HeLa cells, HEK-293 cells, C6 cells

## 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

For technical support and original validation data for this product please contact:

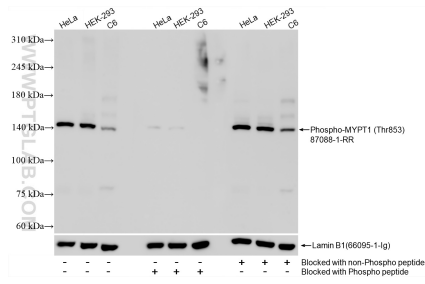
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## Selected Validation Data



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.