

## MYPT1 (Phospho-Ser668) Antibody

Catalog No: #13688



Package Size: #13688-1 50ul #13688-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	MYPT1 (Phospho-Ser668) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Applications	WB
Species Reactivity	Human
Specificity	This antibody detects endogenous levels of Human MYPT1 (phospho-Ser668)
Immunogen Description	Synthesized phosho peptide around human MYPT1 (Ser668)
Conjugates	Unconjugated
Other Names	Protein phosphatase 1 regulatory subunit 12A (Myosin phosphatase-targeting subunit 1) (Myosin phosphatase target subunit 1) (Protein phosphatase myosin-binding subunit)
Accession No.	Swiss Prot:O14974GenelD:4659
SDS-PAGE MW	130
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

## Application Details

WB 1:1000-2000

## Background

protein phosphatase 1 regulatory subunit 12A(PPP1R12A) Homo sapiens 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

## Published Papers

Song Lijie, Tao Yanyan, Lu Guoyu, Wu Chenchen et al., Saikosaponin D ameliorates sepsis-induced acute lung injury by maintaining alveolar epithelial barrier integrity and inhibiting ferroptosis via Nrf2/HO-1 pathway, *Inhalation toxicology*, (2025)

[PMID:40569790](https://pubmed.ncbi.nlm.nih.gov/40569790/)

---

Note: This product is for in vitro research use only and is not intended for use in humans or animals.