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Phospho-PPP1R12A/PPP1R12B/PPP1R12C-T696 Rabbit pAb

Catalog No.: AP1164

Basic Information

Observed MW
140kDa

Calculated MW

Category
Primary antibody

Applications
ELISA,WB

Cross-Reactivity
Human

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 phosphorylation of MBS and MLC. Thus, Rho appears to inhibit myosin phosphatase through the action of Rho-kinase. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2009]

Recommended Dilutions

WB	1:500 - 1:2000

Immunogen Information

Gene ID
4659/4660/54776

Swiss Prot
O14974/O60237/Q9BZL4

Immunogen
A synthetic phosphorylated peptide around T696 of human PPP1R12A/PPP1R12B/PPP1R12CPPP1R12A (NP_002471.1).

Synonyms

Contact

400-999-6126

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Product Information

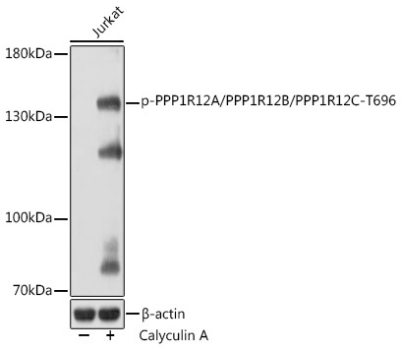
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from Jurkat cells, using Phospho-PPP1R12A/PPP1R12B/PPP1R12C-T696 Rabbit pAb (AP1164) at 1:1000 dilution.Jurkat cells were treated by Calyculin A (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.