

Product datasheet for AP20858PU-S

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OriGene Technologies, Inc.

PPP1R14A pThr38 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of CPI-17 protein only when phosphorylated at

Thr38.

Formulation: Phosphate buffered saline (PBS), pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 22 kDa

Gene Name: protein phosphatase 1 regulatory inhibitor subunit 14A

Database Link: Entrez Gene 68458 MouseEntrez Gene 114004 RatEntrez Gene 94274 Human

Q96A00





Synonyms:

Background: CPI-17 is a phosphorylation-dependent inhibitory protein for smooth muscle Myosin

phosphate. CPI-17 was originally identified as a 17 kDa PKC-potentiated inhibitory protein of protein phosphatase-1, which is dominantly expressed in smooth muscle. Phosphorylation at Threonin 38, in vitro, by PKC or Rho-kinase enhances the inhibitory potency toward myosin phosphatase. CPI-17 is also phosphorylated at Threonine 38 by protein kinase N and might be involved in the calcium sensitization of smooth muscle cont-raction as a downstream effector of Rho and/or arachidonic acid. CPI-17 is dually phosphorylated at Serine 12 and Threonine 38 by a MYPT-associated kinase, M110 kinase.

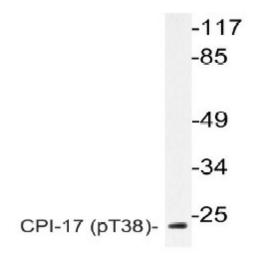
The confine 30 by a MTT T associated Kinase, MTT To Kinase.

Protein phosphatase 1 regulatory subunit 14A, CPI-17, CPI17, PPP1INL

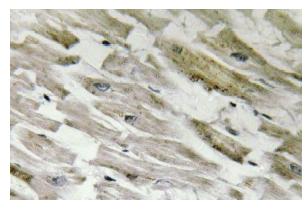
Protein Families: Druggable Genome

Protein Pathways: Vascular smooth muscle contraction

Product images:



Western blot (WB) analysis of p-CPI-17 antibody (Cat.-No.: [AP20858PU-N]) in extracts from RAW264.7 cell



Immunohistochemistry (IHC) analyzes of p-CPI-17 antibody (Cat.-No.: [AP20858PU-N]) in paraffinembedded human heart tissue.