

Product datasheet for AP20858PU-N

PPP1R14A pThr38 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

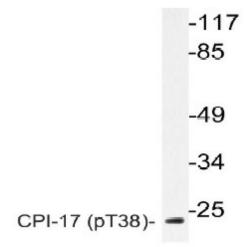
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of CPI-17 protein only 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:	<u>Entrez Gene 68458 MouseEntrez Gene 114004 RatEntrez Gene 94274 Human</u> <u>Q96A00</u>



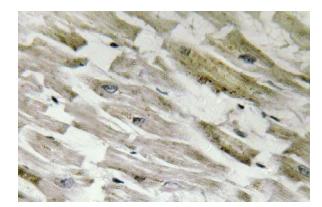
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	PPP1R14A pThr38 Rabbit Polyclonal Antibody – AP20858PU-N
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.
Synonyms:	Protein phosphatase 1 regulatory subunit 14A, CPI-17, CPI17, PPP1INL
Protein Families	: Druggable Genome
Protein Pathway	s: 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US