

Rabbit CPI17 alpha Polyclonal Antibody | anti-PPP1R14A antibody

Phospho-CPI17 alpha (Thr38) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321761	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CPI17 alpha; Polyclonal Antibody; Phospho-CPI17 alpha (Thr38) Antibody; 17 kDa PKC-potentiated inhibitory protein of PP1; 17-KDa protein; 17kDa PKC potentiated inhibitory protein of PP1; CPI 17 alpha; CPI 17; CPI 17alpha; CPI-17; CPI17; PKC potentiated inhibitory protein of PP1; 17-KD; PP14A_HUMAN; PPP1INL; Ppp1r14a; Protein kinase C-potentiated inhibitor of protein phosphatase 1; Protein kinase C-potentiated inhibitor protein of 17 kDa; Protein phosphatase 1; Protein phosphatase 1 regulatory (inhibitor) subunit 14A; Protein phosphatase 1 regulatory subunit 14A; Regulatory subunit 14A; anti-PPP1R14A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-CPI17 alpha (Thr38) antibody detects endogenous levels of CPI17 alpha only when phosphorylated at Threonine 38
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	120
Applicable Applications for anti-PPP1R14A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CPI17 alpha around the phosphorylation site of Threonine 38
Subcellular Location	Cytoplasm.
Tissue Specificity	Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%)
Conjugation	Unconjugated
Epitope	Phospho Thr38
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321761 at 1/100 staining human Brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of CPI17 alpha phosphorylation expression in RAW264.7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-CPI17 alpha (Thr38) expression in various lysates



IF (Immunofluorescence)
AAA321761 staining HT29 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1R14A antibody	Description: PPP1R14A a phosphorylation-dependent inhibitory subunit of protein phosphatase 1 (PP-1A). Phosphorylation by PKC regulates its binding to PP-1A. Acts co-operatively to inhibit myosin light chain phosphatase (MLCP) activity. Function: Inhibitor of PPP1CA. Has over 1000-fold higher inhibitory activity when phosphorylated, creating a molecular switch for regulating the phosphorylation status of PPP1CA substrates and smooth muscle contraction. Similarity: Belongs to the PP1 inhibitor family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	345441807
NCBI GeneID	94274
NCBI Accession #	NP_001230876.1
NCBI GenBank Nucleotide #	NM_001243947.1
UniProt Accession #	Q96A00; Q7Z4X7; Q96S54
Molecular Weight	Observed: 22 kDa Predicted: 17 kDa
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 14A isoform 2
NCBI Official Synonym Full Names	protein phosphatase 1 regulatory inhibitor subunit 14A
NCBI Official Symbol	PPP1R14A
NCBI Official Synonym Symbols	CPI17; CPI-17; PPP1INL
NCBI Protein Information	protein phosphatase 1 regulatory subunit 14A
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 14A
UniProt Gene Name	PPP1R14A
UniProt Synonym Gene Names	CPI17; PPP1INL; CPI-17

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

