



CPI-17 Polyclonal Antibody

Catalog No	YP-Ab-03786
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PPP1R14A
Immunogen	The antiserum was produced against synthesized peptide derived from human CPI17 alpha. AA range:5-54
Specificity	CPI-17 Polyclonal Antibody detects endogenous levels of CPI-17 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PPP1R14A;Protein kinase C-potentiated inhibitor protein of 17 kDa;PPP1INL; CPI-17;CPI 17;Protein phosphatase 1 regulatory subunit 14A;CPI17;17 kDa PKC-potentiated inhibitory protein of PP1
Observed Band	22kD
Calculated Molecular Weight	22kD
Cell Pathway	Cytoplasm .
Tissue Specificity	Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.
Function	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.,tissue specificity:Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.,



Background

The protein encoded by this gene belongs to the protein phosphatase 1 (PP1) inhibitor family. This protein is an inhibitor of smooth muscle myosin phosphatase, and has higher inhibitory activity when phosphorylated. Inhibition of myosin phosphatase leads to increased myosin phosphorylation and enhanced smooth muscle contraction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Sep 2011],

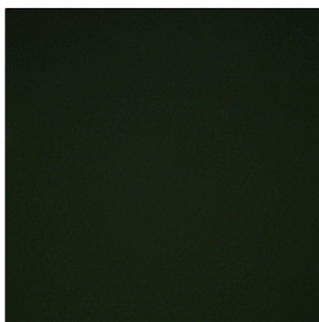
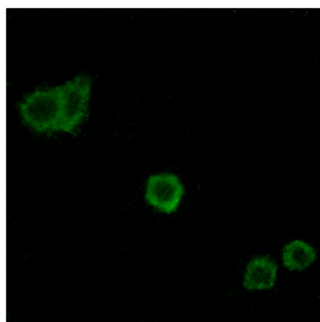
matters needing attention

Avoid repeated freezing and thawing!

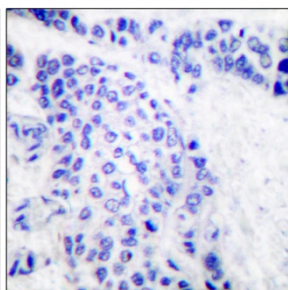
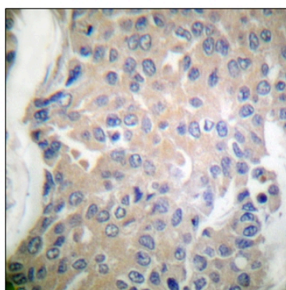
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

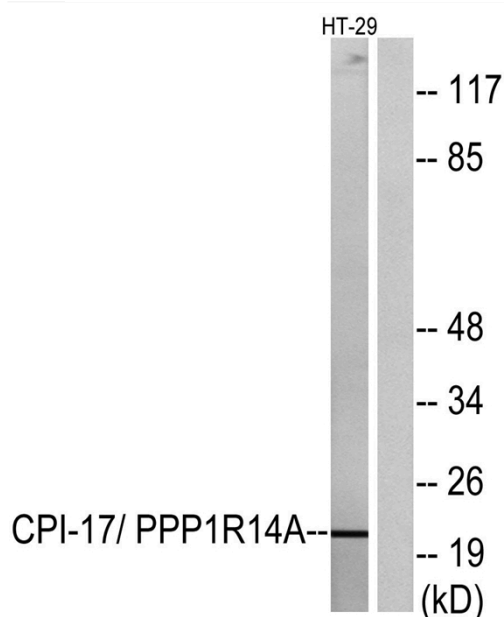
Products Images



Immunofluorescence analysis of HeLa cells, using CPI17 alpha Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using CPI17 alpha Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29 cells, using CPI17 alpha Antibody. The lane on the right is blocked with the synthesized peptide.