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Anti-CPI17 Antibody

Catalog # AP53927

Product Information

Application	WB, IF
Primary Accession	Q96A00
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16693

Additional Information

Gene ID	94274
Other Names	CPI17; PPP1INL; Protein phosphatase 1 regulatory subunit 14A; 17 kDa PKC-potentiated inhibitory protein of PP1; Protein kinase C-potentiated inhibitor protein of 17 kDa; CPI-17
Target/Specificity	Recognizes endogenous levels of CPI17 protein.
Dilution	WB~~1/500 - 1/1000 IF~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

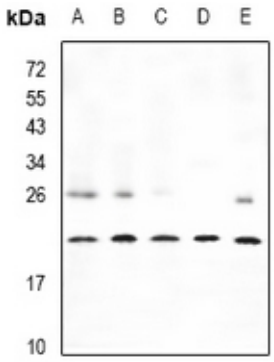
Protein Information

Name	PPP1R14A
Synonyms	CPI17, PPP1INL
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.
Cellular Location	Cytoplasm.
Tissue Location	Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.

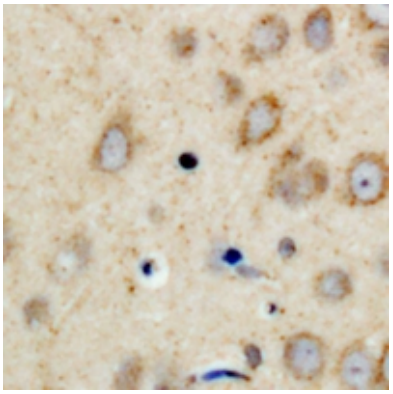
Background

Rabbit polyclonal antibody to CPI17

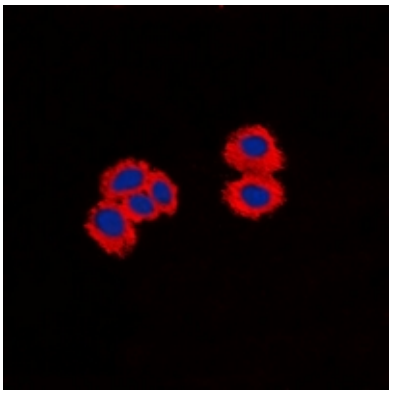
Images



Western blot analysis of CPI17 expression in A2780 (A), HEK293T (B), EC9706 (C), mouse brain (D), rat brain (E) whole cell lysates.



Immunohistochemical analysis of CPI17 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CPI17 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).