

**Anti-CPI17 Antibody**  
**Catalog # AP53927****Specification**

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**Anti-CPI17 Antibody - Product Information**

Application	WB, IF, IHC
Primary Accession	<a href="#">Q96A00</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16693

**Anti-CPI17 Antibody - 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

IHC~~1:100~500

**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

**Anti-CPI17 Antibody - 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

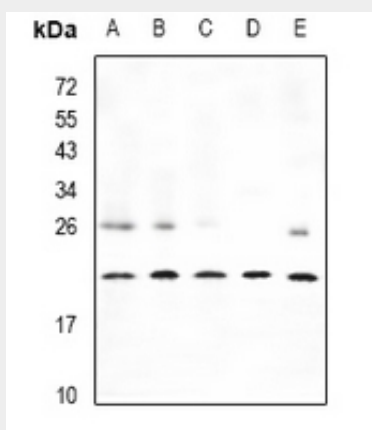
Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.

### Anti-CPI17 Antibody - Protocols

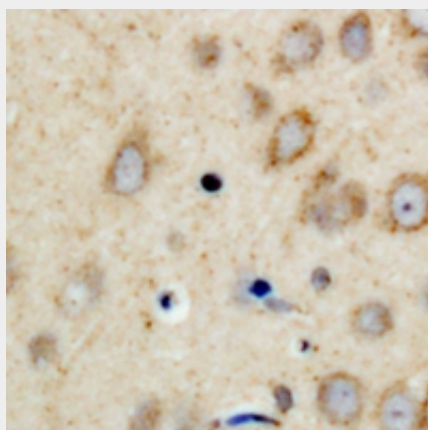
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-CPI17 Antibody - 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 humidified 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).

#### **Anti-CPI17 Antibody - Background**

Rabbit polyclonal antibody to CPI17