## CPTC-PP2A-3 (CAB080098)

#### Uniprot ID: Q15257

Protein name: PTPA\_HUMAN Full name: Serine/threonine-protein phosphatase 2A activator

Tissue specificity: Widely expressed.

**Function**: PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) modulating its activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPlase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+) (By similarity). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro). The phosphotyrosyl phosphatase activity of the PP2A(D):PPP2R4 complex. Is involved in apoptosis; the function appears to be independent from PP2A.

#### Subcellular location:

Cytoplasm (experimental evidence)

Nucleus (experimental evidence)

Protein existence: Experimental evidence at protein level

**IHC protocol:** 

Comment:

### Immunohistochemistry



### Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Cytosol - 10 [3]: Approved (auto)
IF additional location:	
IF approved for publication on HPA:	Yes
IF in SK-MEL-30:	Cytosol
IF in U-2 OS:	Cytosol

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IHC test staining:	Cytoplasmic and nuclear positivity in a majority of tissues.
Literature conformance:	Consistent with extensive gene/protein characterization data
Literature significance:	
RNA similarity:	Low consistency between antibody staining and RNA expression data
RNA tissue specificity:	Low tissue specificity
RNA tissue distribution:	Detected in all
IHC Sibling similarity:	Other antibody shows partly similar IHC staining pattern

HIER pH6, Dilution 1:1000

# Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10
WB Lanes:	Marker (1), RT4 (2), U-251 MG (3), Plasma (4), Liver (5), Tonsil (6)
WB Target weight (kDa):	5, 7, 7, 7, 7, 7, 7, 8, 12, 14, 14, 15, 16, 19, 24, 32, 33, 33, 33, 37, 37, 41, 42
WB Validation:	Supported (Band of predicted size in kDa (+/-20%) with additional bands present.)