## CPTC-TIMP1-1 (CAB080272)

#### Uniprot ID: P01033

Protein name: TIMP1\_HUMAN Full name: Metalloproteinase inhibitor 1

Tissue specificity: Detected in rheumatoid synovial fluid (at protein level).

Function: Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Mediates erythropoiesis in vitro; but, unlike IL3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors.

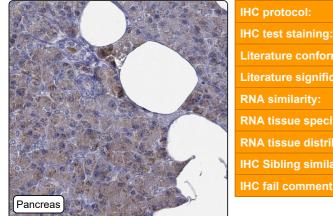
Subcellular location:

Secreted (experimental evidence)

Protein existence: Experimental evidence at protein level

Comment:

### Immunohistochemistry



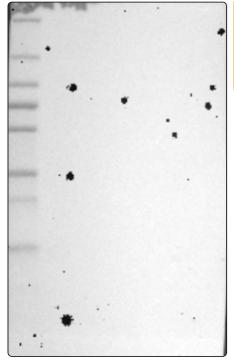
#### Immunofluorescence

- AL	1057
	MA
THP-1	

IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Negative
IF in U-2 OS:	Negative

IHC protocol:	HIER pH6, Dilution 1:200
IHC test staining:	Cytoplasmic positivity in pancreas.
Literature conformance:	Not consistent with gene/protein characterization data
Literature significance:	
RNA similarity:	Very low consistency between antibody staining and RNA expression data
RNA tissue specificity:	Tissue enhanced (urinary bladder)
RNA tissue distribution:	Detected in all
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern
IHC fail comment:	ANTIBODY FAILED: Improbable histological location,Not consistent with RNA

# 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):	11, 15, 16, 18, 23
WB Validation:	Uncertain (No bands detected.)