

# CPTC-NT5E-1 (CAB080367)

Uniprot ID: [P21589](#)

Protein name: 5NTD\_HUMAN

Full name: 5'-nucleotidase

Function: Hydrolyzes extracellular nucleotides into membrane permeable nucleosides. Exhibits AMP-, NAD-, and NMN-nucleosidase activities.

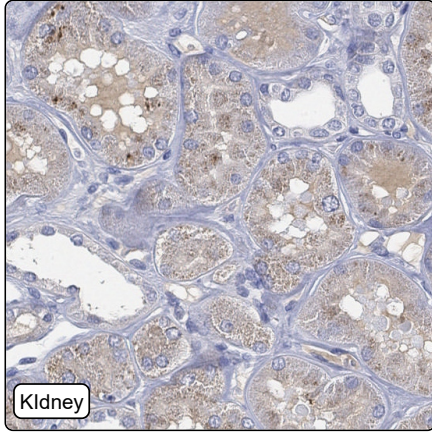
Subcellular location:

Cell membrane (*experimental evidence*) (Topo: Lipid-anchor,GPI-anchor (*experimental evidence*))

Protein existence: Experimental evidence at protein level

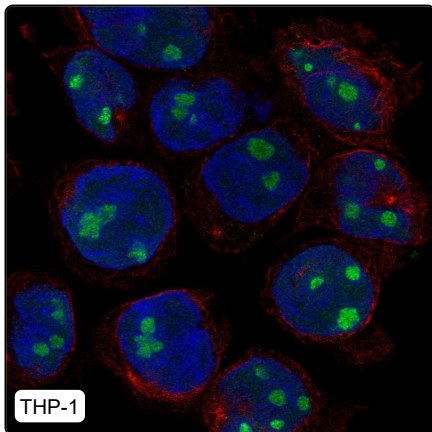
Comment:

## Immunohistochemistry



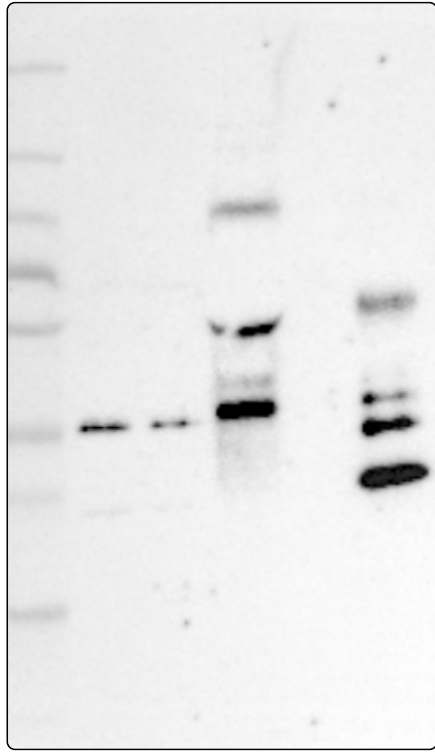
|                          |  |
|--------------------------|--|
| IHC protocol:            | HIER pH6, Dilution 1:600   |
| IHC test staining:       | Cytoplasmic positivity in kidney and nuclear in pancreas.              |
| Literature conformance:  | Not consistent with gene/protein characterization data                 |
| Literature significance: |  |
| RNA similarity:          | Very low consistency between antibody staining and RNA expression data |
| RNA tissue specificity:  | Tissue enhanced (cervix,retina)  |
| RNA tissue distribution: | Detected in many   |
| IHC Sibling similarity:  | Other antibody shows dissimilar IHC staining pattern                   |

## Immunofluorescence



|                                     |   |
|-------------------------------------|---|
| IF Overlay:                         | antibody (green), anti-tubulin (red) and DAPI (blue)                                |
| IF main location:                   | Nucleoli - 12: <b>Uncertain</b> (auto)  |
| IF additional location:             | Vesicles - 12: <b>Uncertain</b> (auto)<br>Nucleoplasm - 12: <b>Uncertain</b> (auto) |
| IF approved for publication on HPA: | No  |
| IF in THP-1:                        | Nucleoli  |
| IF in U2OS:                         | Nucleoplasm<br>Nucleoli<br>Vesicles   |

# Western blot



|                                |   |
|--------------------------------|---|
| <b>WB Size markers (kDa):</b>  | 250, 130, 100, 70, 55, 35, 25, 15, 10   |
| <b>WB Lanes:</b>               | Marker (1), RT-4 (2), U-251MG (3), Plasma (4), Liver (5), Tonsil (6)              |
| <b>WB Target weight (kDa):</b> | 20, 26, 29, 58, 63  |
| <b>WB Validation:</b>          | Supported (Band of predicted size in kDa (+/-20%) with additional bands present.) |