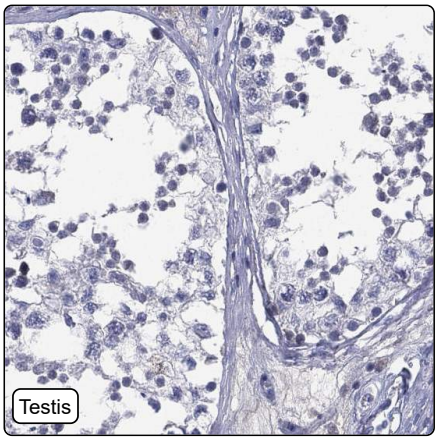
# CPTC-CDC25C-1 (CAB079973)

**Uniprot ID**: P30307
**Protein name**: MPIP3_HUMAN
**Full name**: M-phase inducer phosphatase 3
**Function**: Functions as a dosage-dependent inducer in mitotic control. Tyrosine protein phosphatase required for progression of the cell cycle. When phosphorylated, highly effective in activating G2 cells into prophase. Directly dephosphorylates CDK1 and activates its kinase activity.
**Subcellular location**:
Nucleus (*experimental evidence*)
**Protein existence**: Experimental evidence at protein level

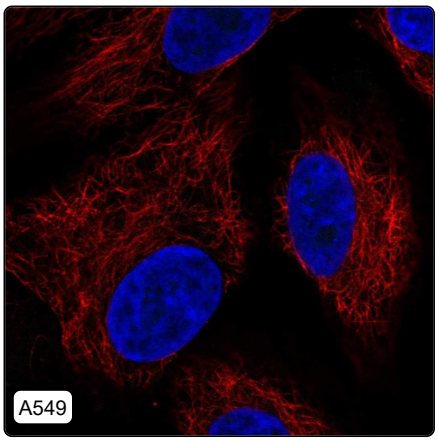
**Comment:**

## Immunohistochemistry



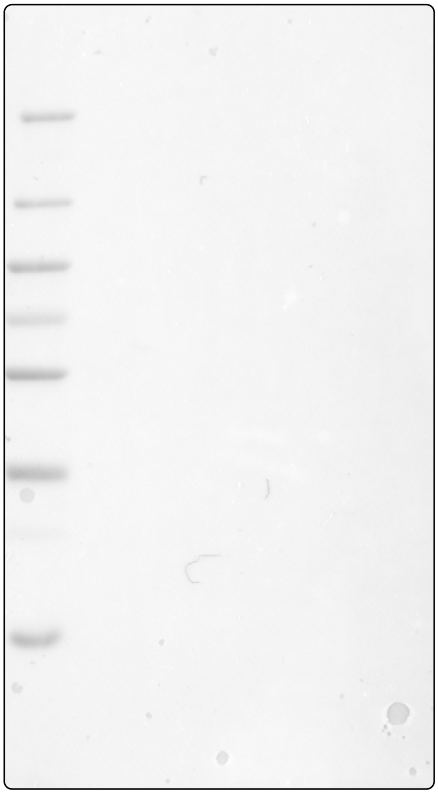

| | |
|---|---|
| **IHC protocol:** | HIER pH6, Dilution 1:250 |
| **IHC test staining:** | Negative in all tissues. |
| **Literature conformance:** | Not consistent with gene/protein characterization data |
| **Literature significance:** | |
| **RNA consistency:** | Not consistent with RNA expression data |
| **IHC Sibling similarity:** | Other antibody shows dissimilar IHC staining pattern |
| **IHC fail comment:** | ANTIBODY FAILED: Negative |

## Immunofluorescence




| | |
|---|---|
| **IF Overlay:** | antibody (green), anti-tubuline (red) and DAPI (blue) |
| **IF main location:** | |
| **IF additional location:** | |
| **IF Antibody score:** | Failed IF |
| **IF in A549:** | Negative |
| **IF in HEK 293:** | Negative |
| **IF in U-2 OS:** | Negative |

# 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):** | 18, 27, 30, 46, 46, 50, 53, 53 |
| **WB Validation:** | Uncertain (No bands detected.) |