## CPTC-GPI-1 (CAB080077)

Uniprot ID: P06744
Protein name: G6PI_HUMAN
Full name: Glucose- $\overline{6}$-phosphate isomerase
Function: In the cytoplasm, catalyzes the conversion of glucose-6-phosphate to fructose-6-phosphate, the second step in glycolysis, and the reverse reaction during gluconeogenesis (PubMed:28803808). Besides it's role as a glycolytic enzyme, also acts as a secreted cytokine: acts as an angiogenic factor (AMF) that stimulates endothelial cell motility (PubMed:11437381). Acts as a neurotrophic factor, neuroleukin, for spinal and sensory neurons (PubMed:3352745, PubMed:11004567). It is secreted by lectin-stimulated T-cells and induces immunoglobulin secretion (PubMed:3352745, PubMed:11004567).

## Subcellular location

Cytoplasm (experimental evidence)
Secreted (experimental evidence)
Protein existence: Experimental evidence at protein leve

## Comment:

## Immunohistochemistry



| IHC protocol: | HIER pH6, Dilution 1:12000 |
| :--- | :--- |
| IHC test staining: | General cytoplasmic positivity with additional nuclear staining in a few tissues. |
| Literature conformance: | Partly 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 similar IHC staining pattern |

## Immunofluorescence



| IF Overlay: | antibody (green), anti-tubulin (red) and DAPI (blue) |
| :--- | :--- |
| IF main location: | Cytosol -1 [3]: Supportive (auto) |
| IF additional location: |  |
| IF approved for publication on HPA: | Yes |
| IF in SiHa: | Cytosol |
| IF in SK-MEL-30: | Cytosol |
| IF in U-2 OS: | Cytosol |

