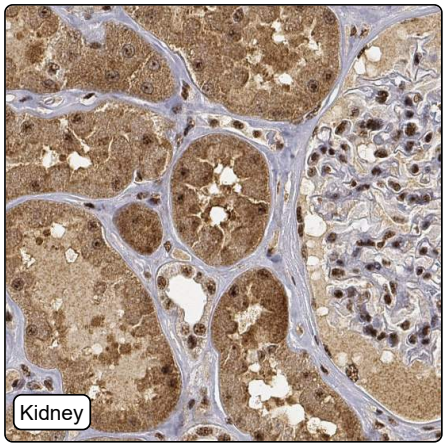
# CPTC-CGB-7 (CAB080144)

**Uniprot ID**: P0DN86
**Protein name**: CGB3_HUMAN
**Full name**: Choriogonadotropin subunit beta 3
**Tissue specificity**: High expression in the placenta throughout pregnancy.
**Function**: Beta subunit of the human chorionic gonadotropin (hCG). hCG is a complex glycoprotein composed of two glycosylated subunits alpha and beta which are non-covalently associated. The alpha subunit is identical to those in the pituitary gonadotropin hormones (LH, FSH and TSH). The beta subunits are distinct in each of the hormones and confer receptor and biological specificity. Has an essential role in pregnancy and maternal adaptation. Stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy.
**Subcellular location**:
Secreted (*experimental evidence*)
**Protein existence**: Experimental evidence at protein level

**Comment:**

## Immunohistochemistry

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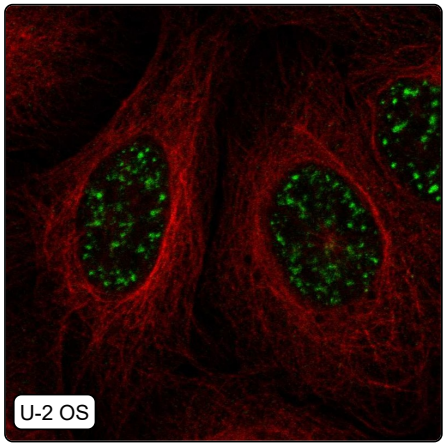
|---|---|
| **IHC protocol:** | HIER pH6, Dilution 1:700 |
| **IHC test staining:** | Nuclear and cytoplasmic positivity in most tissues. |
| **Literature conformance:** | Not consistent with gene/protein characterization data |
| **Literature significance:** | |
| **RNA similarity:** | Very low consistency between antibody staining and RNA expression data |
| **RNA tissue specificity:** | Tissue enriched (placenta) |
| **RNA tissue distribution:** | Detected in some |
| **IHC Sibling similarity:** | Other antibody shows dissimilar IHC staining pattern |

## Immunofluorescence




| | |
|---|---|
| **IF Overlay:** | antibody (green), anti-tubulin (red) and DAPI (blue) |
| **IF main location:** | Nuclear speckles - 12: **Uncertain** (manual) |
| **IF additional location:** | |
| **IF approved for publication on HPA:** | No |
| **IF in SiHa:** | Nuc speckles |
| **IF in U-251 MG:** | Nuc speckles |
| **IF in U-2 OS:** | Nuc speckles |

# Western blot

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|---|---|
| **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 |
| **WB Validation:** | Uncertain (Single band larger than predicted size in kDa (+20%) but partly supported by experimental and/or bioinformatic data.) |