

# CPTC-CTLA4-1 (CAB080308)

**Uniprot ID:** [P16410](#)

**Protein name:** CTLA4\_HUMAN

**Full name:** Cytotoxic T-lymphocyte protein 4

**Tissue specificity:** Widely expressed with highest levels in lymphoid tissues. Detected in activated T-cells where expression levels are 30-to 50-fold less than CD28, the stimulatory coreceptor, on the cell surface following activation.

**Function:** Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28.

**Subcellular location:**

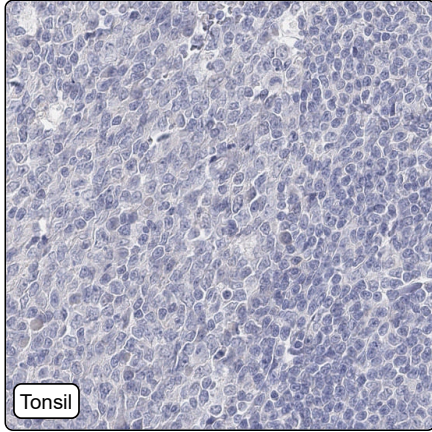
Cell membrane (*experimental evidence*) (Topo: Single-pass type I membrane protein (*experimental evidence*))

**NOTE:** Exists primarily an intracellular antigen whose surface expression is tightly regulated by restricted trafficking to the cell surface and rapid internalization.

**Protein existence:** Experimental evidence at protein level

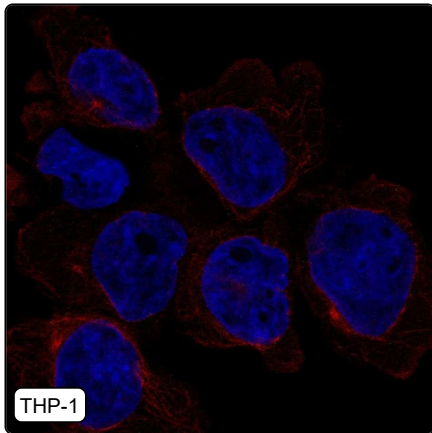
**Comment:**

## Immunohistochemistry



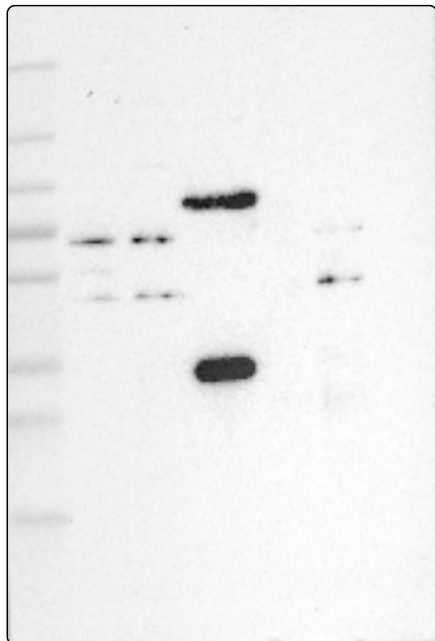
<b>IHC protocol:</b>	HIER pH6, Dilution 1:125
<b>IHC test staining:</b>	No positivity was observed.
<b>Literature conformance:</b>	Not consistent with gene/protein characterization data
<b>Literature significance:</b>	
<b>RNA similarity:</b>	Very low consistency between antibody staining and RNA expression data
<b>RNA tissue specificity:</b>	Tissue enriched (lymphoid tissue)
<b>RNA tissue distribution:</b>	Detected in many
<b>IHC Sibling similarity:</b>	Other antibody shows dissimilar IHC staining pattern

## Immunofluorescence



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

# 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>	7, 9, 19, 25
<b>WB Validation:</b>	Uncertain (Only bands not corresponding to the predicted size.)