## CPTC-LGALS1-1 (CAB080346)

#### Uniprot ID: P09382

Protein name: LEG1\_HUMAN Full name: Galectin-1

**Tissue specificity**: Expressed in placenta, maternal decidua and fetal membranes. Within placenta, expressed in trophoblasts, stromal cells, villous endothelium, syncytiotrophoblast apical membrane and villous stroma. Within fetal membranes, expressed in amnion, chorioamniotic mesenchyma and chorion (at protein level). Expressed in cardiac, smooth, and skeletal muscle, neurons, thymus, kidney and hematopoietic cells.

**Function**: Lectin that binds beta-galactoside and a wide array of complex carbohydrates. Plays a role in regulating apoptosis, cell proliferation and cell differentiation. Inhibits CD45 protein phosphatase activity and therefore the dephosphorylation of Lyn kinase. Strong inducer of T-cell apoptosis.

#### Subcellular location:

Secreted > Extracellular space > Extracellular matrix (experimental evidence)

Cytoplasm (experimental evidence)

Secreted (experimental evidence)

NOTE: Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion. **Protein existence**: Experimental evidence at protein level

IHC protocol:

Liter Liter RNA RNA

**RN**/

Comment:

### Immunohistochemistry



test staining:	No positivity was observed.
rature conformance:	Not consistent with gene/protein characterization data
rature significance:	
similarity:	Very low consistency between antibody staining and RNA expression data
tissue specificity:	Low tissue specificity
tissue distribution:	Detected in all
Sibling similarity:	Other antibody shows dissimilar IHC staining pattern

HIER pH6, Dilution 1:300

### Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Negative
IF in U2OS:	Negative

# Western blot

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WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10
WB Lanes:	Marker (1), RT-4 (2), U-251MG (3), Plasma (4), Liver (5), Tonsil (6)
WB Target weight (kDa):	15
WB Validation:	Uncertain (No bands detected.)