

# Galectin 1

Rabbit mAb Catalog # AP92838

#### **Product Information**

**Application** WB, IHC, FC, IP

Primary Accession P09382

**Reactivity** Rat, Human, Mouse

**Clonality** Monoclonal

Other Names GAL1; Galaptin; Galbp; Galectin; Galectin1; GBP; HBL; HLBP14; HPL; Lect14;

LGALS1;

IsotypeRabbit IgGHostRabbitCalculated MW14716

#### **Additional Information**

**Dilution** WB 1:500~1:2000 IHC 1:50~1:200 IP 1:50 FC 1:50

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human Galectin 1

**Description** May regulate apoptosis, cell proliferation and cell differentiation. Binds

beta-galactoside and a wide array of complex carbohydrates. Inhibits CD45 protein phosphatase activity and therefore the dephosphorylation of Lyn

kinase.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

### **Protein Information**

Name LGALS1 ( HGNC:6561)

**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. Plays a negative role in Th17 cell differentiation via activation of the receptor CD69

(PubMed:<u>24752896</u>).

**Cellular Location** Secreted, extracellular space, extracellular matrix. Cytoplasm. Secreted

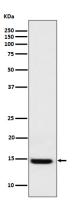
Note=Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation

from the cytoplasm into the ERGIC (endoplasmic reticulum- Golgi intermediate compartment) followed by vesicle entry and secretion.

**Tissue Location** 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.

## **Images**



Western blot analysis of Galectin 1 expression in 293 cell lysate.

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