

Galectin 1 Rabbit mAb Catalog # AP92838

Specification

Galectin 1 - Product Information

Application WB, IHC, FC
Primary Accession P09382
Reactivity Rat
Clonality Monoclonal

Other Names

GAL1; Galaptin; Galbp; Galectin; Galectin1; GBP; HBL; HLBP14; HPL; Lect14; LGALS1;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 14716 Da

Galectin 1 - Additional Information

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.

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at $+4^{\circ}\text{C}$ short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

Galectin 1 - Protein Information

Name LGALS1 (HGNC:6561)

Storage Condition and Buffer

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:24752896).

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

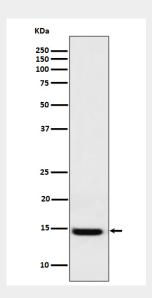
Expressed in placenta, maternal decidua and fetal membranes. Within placenta, expressed in trophoblasts, stromal cells, villous endothelium, syncytiotrophoblast apical membrane and villous stroma. Within fetal membranes, expressed in amnion, chorioamniotic mesenchyma and chorion (at protein level). Expressed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

Galectin 1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Galectin 1 - Images



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