

**Galectin-1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10442****Specification**

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**Galectin-1 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P09382</a>
Other Accession	<a href="#">AAP36586</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	14716

**Galectin-1 Antibody - Additional Information****Gene ID** 3956**Application & Usage****Western blotting (0.5 - 2.0 µg/ml) and Immunohistochemistry (5 µg/ml). However, the optimal concentrations should be determined individually.****Other Names**

Galaptin, Galectin1 , DKFZp686E23103

**Target/Specificity**

Galectin 1

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5mg/ml) antigen affinity purified rabbit anti-human Galectin-1 polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.1% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

Galectin-1 Antibody is for research use only and not for use in diagnostic or therapeutic

procedures.

## **Galectin-1 Antibody - 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.

### **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 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Galectin-1 Antibody - Images**

## **Galectin-1 Antibody - Background**

Galectins are a family of soluble  $\beta$ -galactoside-binding animal lectins that modulate cell-to-cell and cell-to-ECM interactions, as well as apoptosis. Galectin-1 has the ability to induce apoptosis of activated T-cells and T-leukaemia cell lines. Other activities include cell differentiation and inhibition activity of CD45 protein phosphatase activity. Galectin also binds beta-galactoside as well as CD45, CD3 and CD4. Human Galectin is a 14.5 kDa protein consisting of 134 amino acid residues.