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KD-Validated Anti-Galectin 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1547

Specification

KD-Validated Anti-Galectin 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P09382
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 15 kDa , observed , 14 kDa KDa**
Gene Name	**LGALS1**
Aliases	**LGALS1; Galectin 1; GBP; Lectin, Galactoside-Binding, Soluble, 1; Beta-Galactoside-Binding Lectin L-14-I; Putative MAPK-Activating Protein PM12; 14 KDa Laminin-Binding Protein; Lactose-Binding Lectin 1; S-Lac Lectin 1; 14 KDa Lectin; Galectin-1; Galaptin; HLBP14; Gal-1; HBL; HPL; Epididymis Secretory Sperm Binding Protein; Beta-Galactoside-Binding Protein 14kDa; Lectin Galactoside-Binding Soluble 1; GAL1**
Immunogen	**A synthesized peptide derived from human Galectin 1**

KD-Validated Anti-Galectin 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**3956**

Other Names
Galectin-1, Gal-1, 14 kDa laminin-binding protein, HLBP14, 14 kDa lectin, Beta-galactoside-binding lectin L-14-I, Galaptin, HBL, HPL, Lactose-binding lectin 1, Lectin galactoside-binding soluble 1, Putative MAPK-activating protein PM12, S-Lac lectin 1, LGALS1 (HGNC:6561)

KD-Validated Anti-Galectin 1 Rabbit Monoclonal 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. 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.

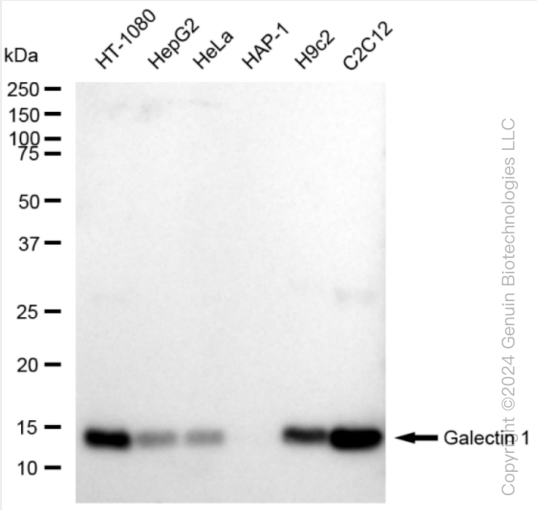
Tissue Location
Expressed in placenta, maternal decidua and fetal membranes. Within placenta, expressed in trophoblasts, stromal cells, villous endothelium, syncytiotrophoblast apical membrane and villous stroma. Within fetal membranes, expressed in amnion, chorioamniotic mesenchyma and chorion (at protein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

KD-Validated Anti-Galectin 1 Rabbit Monoclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-Galectin 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Galectin 1 antibody (Cat#AGI1547). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Galectin 1 antibody (Cat#AGI1547, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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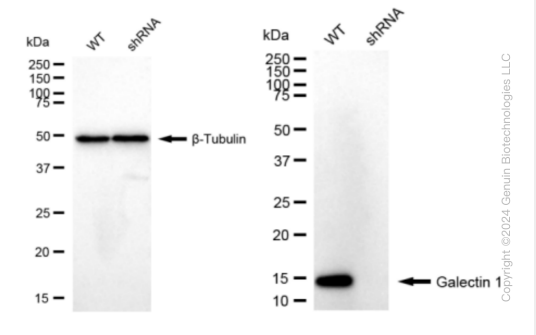
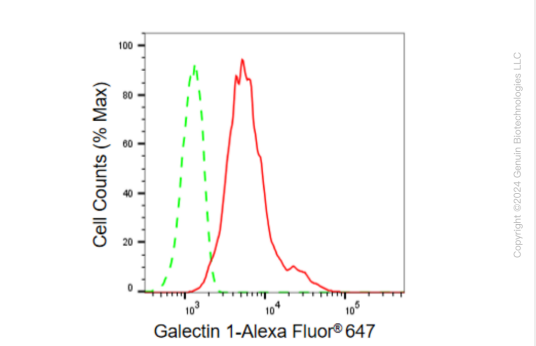


Western blotting analysis using anti-Galectin 1 antibody (Cat#AGI1547). Galectin 1 expression in wild type (WT) and Galectin 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Galectin 1 antibody (Cat#AGI1547, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Galectin 1 expression in C2C12 cells using Galectin 1 antibody (Cat#AGI1547, 1:2,000). Green, isotype control; red, Galectin 1.