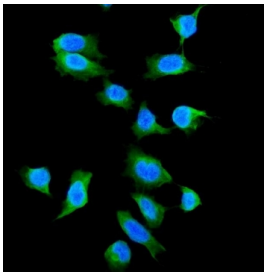
Galectin 1 Antibody (R31924)

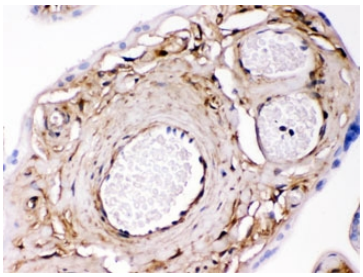
Catalog No.	Formulation	Size
R31924	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

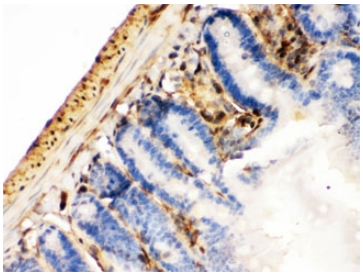
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P09382
Localization	Cytoplasmic, secreted
Applications	Western blot: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml (human protein tested); request BSA-free format for coating
Limitations	This Galectin 1 antibody is available for research use only.



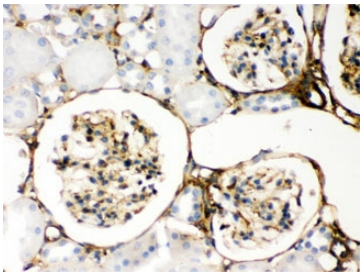
Galectin 1 Antibody U-2 OS IF/ICC. Immunofluorescent staining of FFPE human U-2 OS cells using Galectin 1 antibody at 2 ug/ml demonstrates strong cytoplasmic green fluorescence throughout the cell body, consistent with the known intracellular localization of Galectin-1 (LGALS1), a beta-galactoside-binding lectin involved in immune regulation, cell adhesion, apoptosis, and glycan-mediated signaling pathways. The staining pattern is predominantly cytoplasmic with minimal nuclear localization, while DAPI counterstain (blue) clearly identifies cell nuclei. These results support the utility of the Galectin 1 antibody for IF/ICC detection of endogenous Galectin-1 expression in FFPE cell preparations. HIER: steam section in pH6 citrate buffer for 20 min.



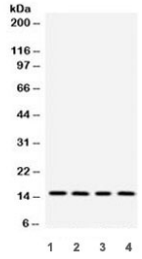
Galectin 1 Antibody Human Placenta IHC. Immunohistochemical staining of FFPE human placenta tissue using Galectin 1 antibody demonstrates prominent cytoplasmic and extracellular matrix-associated HRP-DAB brown staining within placental stromal and vascular-associated cellular structures. The observed staining pattern is consistent with expression of Galectin-1 (LGALS1), a beta-galactoside-binding lectin involved in cell adhesion, immune tolerance, angiogenesis, and maternal-fetal communication. Galectin-1 is known to contribute to placental development, trophoblast function, and regulation of the immune environment at the maternal-fetal interface. The results support the utility of the Galectin 1 antibody for detection of endogenous LGALS1 expression in FFPE placental tissue. HIER: boil paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



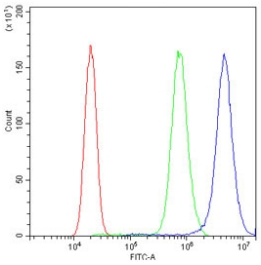
Galectin 1 Antibody Mouse Intestinal Cancer IHC. Immunohistochemical staining of FFPE mouse intestinal cancer tissue using Galectin 1 antibody demonstrates cytoplasmic and membranous HRP-DAB brown staining within neoplastic epithelial cells and adjacent stromal elements. The staining pattern is consistent with expression of Galectin-1 (LGALS1), a beta-galactoside-binding lectin involved in cell adhesion, immune regulation, extracellular matrix remodeling, angiogenesis, and tumor progression. Positive immunoreactivity is observed throughout tumor-associated cellular compartments, supporting the role of Galectin-1 in intestinal tumor biology and tumor microenvironment signaling. HIER: boil paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Galectin 1 Antibody Rat Kidney IHC. Immunohistochemical staining of FFPE rat kidney tissue using Galectin 1 antibody demonstrates cytoplasmic and membranous HRP-DAB brown staining within glomerular and tubular-associated cellular structures. The observed staining pattern is consistent with expression of Galectin-1 (LGALS1), a beta-galactoside-binding lectin involved in cell adhesion, immune regulation, extracellular matrix interactions, tissue remodeling, and glycan-mediated signaling pathways. Positive staining is evident within renal cellular compartments, supporting the known role of Galectin-1 in kidney physiology and cellular communication within the renal microenvironment. HIER: boil paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Galectin 1 Antibody Human Mouse Rat WB. Western blot analysis of 1) rat testis, 2) mouse spleen, 3) human HeLa, and 4) human SMCC lysates using Galectin 1 antibody. A distinct immunoreactive band is detected at approximately 15 kDa in all four samples, consistent with the expected molecular weight of Galectin-1 (LGALS1). Galectin-1 is a beta-galactoside-binding lectin involved in immune regulation, cell adhesion, apoptosis, extracellular matrix remodeling, and glycan-mediated signaling pathways. The consistent detection of endogenous Galectin-1 across multiple tissues, species, and cell types demonstrates the broad reactivity and utility of this antibody for western blot applications. Expected molecular weight: ~15 kDa.



Galectin 1 Antibody PC-3 Flow Cytometry. Flow cytometry analysis of human PC-3 cells stained with Galectin 1 antibody at 1 ug/million cells demonstrates a clear rightward shift of the positive population (blue) relative to both the isotype control (green) and unstained cells (red). The observed fluorescence profile is consistent with expression of Galectin-1 (LGALS1), a beta-galactoside-binding lectin involved in immune regulation, cell adhesion, apoptosis, angiogenesis, and glycan-mediated signaling pathways. The distinct separation between antibody-stained and control populations supports specific detection of endogenous Galectin-1 and demonstrates the utility of this antibody for flow cytometric analysis of LGALS1 expression. Cells were blocked with goat sera prior to staining.

Description

Galectin 1 Antibody detects Galectin-1, a protein that in humans is encoded by the LGALS1 gene. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Galectin-1 may act as an autocrine negative growth factor that regulates cell proliferation. Galectin-1 expression in Hodgkin Lymphoma has also been shown to mediate immunosuppression of CD8+ T-cells. It is thought to play a role in creating immune tolerance in pregnancy. It has been found that Galectin-1-mediated production of IL6 may assist in augmenting the innate immune response against NiV. Galectin-1

Researchers studying glycan-dependent cell signaling, immune homeostasis, and Galectin-1 biology may also be interested in our Galectin 1 Antibody / Immune Regulation Protein Antibody.may also be a significant factor that augments the efficiency of the HIV-1 infection process.

Application Notes

Optimal dilution of the Galectin 1 antibody should be determined by the researcher.

Immunogen

Amino acids 2-135 of human Galectin 1 were used as the immunogen for the Galectin 1 antibody.

Storage

After reconstitution, the Galectin 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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