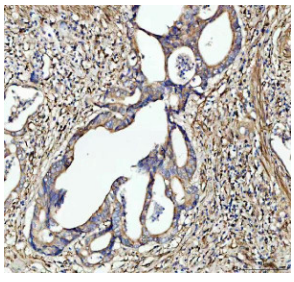
Galectin 1 Antibody (R32841)

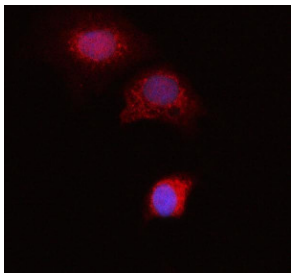
Catalog No.	Formulation	Size
R32841	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

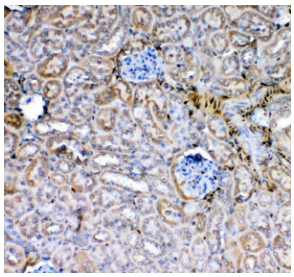
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P16045
Localization	Cytoplasmic, secreted
Applications	Western Blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml ELISA (Capture; recombinant mouse protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This Galectin 1 antibody is available for research use only.



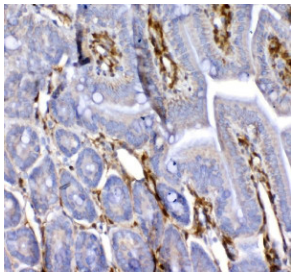
Galectin 1 Antibody Human Colon Cancer IHC. Immunohistochemistry was performed on FFPE human colon cancer tissue using Galectin 1 Antibody. Heat-induced epitope retrieval was performed in pH 8 EDTA buffer prior to incubation with the primary antibody at 2 ug/ml. Bound antibody was visualized using an HRP-conjugated goat anti-rabbit IgG secondary antibody with DAB chromogen. Moderate to strong cytoplasmic staining is observed in the malignant epithelial cells and surrounding stromal components, consistent with the known extracellular matrix and tumor-associated expression pattern of Galectin 1. These results demonstrate that this Galectin 1 Antibody is suitable for immunohistochemical detection of Galectin 1 in formalin-fixed, paraffin-embedded human colon cancer tissue.



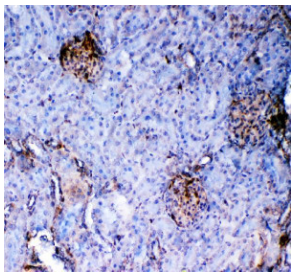
Galectin 1 Antibody A549 Cell IF. Immunofluorescence was performed on A549 cells using Galectin 1 Antibody. Enzyme antigen retrieval was carried out with AR0022 for 15 minutes prior to incubation with the primary antibody at 5 ug/ml overnight at 4Â°C. A Fluoro594-conjugated goat anti-rabbit IgG secondary antibody (red) was used for detection, and nuclei were counterstained with DAPI (blue). Predominantly cytoplasmic staining is observed throughout the A549 cells, consistent with the expected intracellular localization of Galectin 1. These results demonstrate that this Galectin 1 Antibody is suitable for immunofluorescent detection of Galectin 1 in cultured human cells.



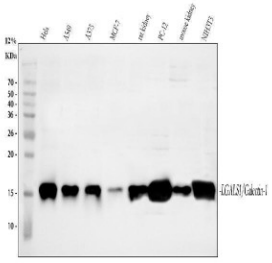
Galectin 1 Antibody Mouse Kidney IHC. Immunohistochemistry was performed on FFPE mouse kidney tissue using Galectin 1 Antibody. Heat-induced epitope retrieval was performed in pH 8 EDTA buffer prior to incubation with the primary antibody at 2 ug/ml. Bound antibody was visualized using an HRP-conjugated goat anti-rabbit IgG secondary antibody with DAB chromogen. Predominantly cytoplasmic staining is observed in renal tubular epithelial cells, with additional staining of selected tubular structures, consistent with the reported expression pattern of Galectin 1 in kidney tissue. These results demonstrate that this Galectin 1 Antibody is suitable for immunohistochemical detection of Galectin 1 in formalin-fixed, paraffin-embedded mouse kidney tissue.



Galectin 1 Antibody Mouse Intestine IHC. Immunohistochemistry was performed on FFPE mouse intestine tissue using Galectin 1 Antibody. Heat-induced epitope retrieval was performed in pH 8 EDTA buffer prior to incubation with the primary antibody at 2 ug/ml. Bound antibody was visualized using an HRP-conjugated goat anti-rabbit IgG secondary antibody with DAB chromogen. Predominantly cytoplasmic staining is observed within the intestinal mucosa and surrounding stromal cells, consistent with the known expression pattern of Galectin 1 in gastrointestinal tissues. These results demonstrate that this Galectin 1 Antibody is suitable for immunohistochemical detection of Galectin 1 in formalin-fixed, paraffin-embedded mouse intestine tissue.



Galectin 1 Antibody Rat Kidney IHC. Immunohistochemistry was performed on FFPE rat kidney tissue using Galectin 1 Antibody. Heat-induced epitope retrieval was performed in pH 8 EDTA buffer prior to incubation with the primary antibody at 2 ug/ml. Bound antibody was visualized using an HRP-conjugated goat anti-rabbit IgG secondary antibody with DAB chromogen. Predominantly cytoplasmic staining is observed in renal glomeruli and selected tubular epithelial cells, consistent with the reported distribution of Galectin 1 in kidney tissue. These results demonstrate that this Galectin 1 Antibody is suitable for immunohistochemical detection of Galectin 1 in formalin-fixed, paraffin-embedded rat kidney tissue.



Galectin 1 Antibody Human, Rat and Mouse WB. Western blot analysis was performed using Galectin 1 Antibody. Lane 1: human HeLa whole cell lysate; lane 2: human A549 whole cell lysate; lane 3: human A375 whole cell lysate; lane 4: human MCF-7 whole cell lysate; lane 5: rat kidney tissue lysate; lane 6: rat PC-12 whole cell lysate; lane 7: mouse kidney tissue lysate; lane 8: mouse NIH/3T3 whole cell lysate. Proteins were separated on a 13% SDS-PAGE gel, transferred to a nitrocellulose membrane, and incubated with the primary antibody at 0.5 ug/ml overnight at 4Â°C. A specific immunoreactive band is detected at approximately 15 kDa in all tested samples, consistent with the expected molecular weight of Galectin 1. These results demonstrate that this Galectin 1 Antibody is suitable for Western blot detection of Galectin 1 across human, rat, and mouse tissues and cell lines.

Description

Galectin 1 Antibody specifically 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 may also be a significant factor that augments the efficiency of the HIV-1 infection process.

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

A recombinant mouse protein corresponding to amino acids A2-E135 was 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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