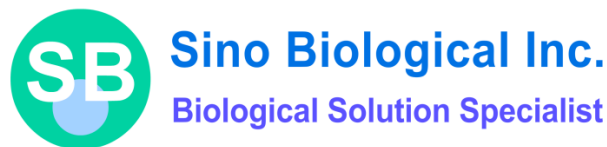


Rabbit Monoclonal Antibody to Human Galectin-1 / LGALS1

Catalog Number: 10290-R001



General Information

Immunogen:	Recombinant Human Galectin-1 / LGALS1 protein (Catalog#10290-HNAE)
Clone ID:	001
Ig Type:	Rabbit IgG
Applications:	WB, IP
Specificity:	Human Galectin-1 / LGALS1
Formulation:	0.2 µm filtered solution in PBS with 5% trehalose
Storage:	< -20°C

Preparation

This antibody was obtained from a rabbit immunized with purified, recombinant Human Galectin-1 / LGALS1 (rh Galectin-1 / LGALS1; Catalog#10290-HNAE; NP_002296.1; Met1-Asp135).

Storage

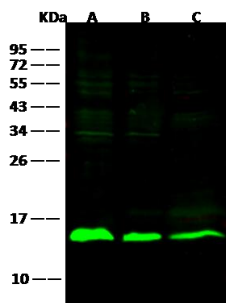
This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Applications

Western blot –

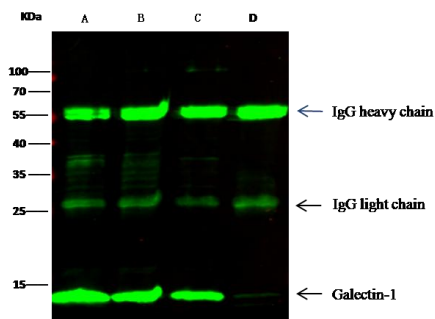
WB: 5-10 µg/mL



Lanes Items	A	B	C
Sample (whole cell lysate)	Hela	K562	A431
Sample Volume (µg/lane)	30	30	25
Gel	13% SDS-PAGE reducing gel		
Recommended Concentration	5-10 µg/ml		
Secondary Antibody	Dylight 800-labeled Antibody To Rabbit IgG (H+L), at 1:5000 dilution.		

Immunoprecipitation –

IP: 1-6 µg/mg of lysate



Lanes Items	A	B	C	D
Sample (whole cell lysate)	Hela	K562	A431	HL-60
Sample quantity	0.5 mg			
IP antibody quantity	2 µg			
Protein G agarose	15 µl of 50% Protein G Agarose			
Gel	13% SDS-PAGE reducing gel			
Primary antibody	Galectin-1 antibody at 10 µg/ml [Cat# 10290-R001]			
Secondary antibody	Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.			

Specificity

Human Galectin-1 / LGALS1

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Sino Biological Inc.
Biological Solution Specialist

Background

Galectin-1 (Gal-1, GAL1), the first identified member of the β -galactoside-binding animal lectin family, and exists as a homodimer of a single carbohydrate-recognition domain. Galectin-1 is expressed in a variety of cell types, including thymic epithelial cells, endothelial cells, dendritic cells, macrophages, fibroblasts, and bone marrow stromal cells. There is increased galectin-1 expression in many types of cancer, including colon, breast, ovary and prostate carcinomas. Several potential glycoprotein ligands for galectin-1 have been identified, including lysosome-associated membrane glycoproteins and fibronectin, laminin, as well as T-cell glycoproteins CD43 and CD45. It is revealed that Galectin-1 can induce apoptosis of activated human T cells and human T leukaemia cell lines, while resting T cells also bound galectin-1, but did not undergo apoptosis. Galectin-1 modulates inflammatory responses and contributes to tumor progression and immune cell homeostasis. Galectin-1 regulates the inflammatory responses of neutrophils, mast cells, and macrophages and also associates with components of the complement system. Galectin-1 is thus suggested to act as an autocrine negative regulatory "cytokine", killing T cells to terminate an immune response.

Reference

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