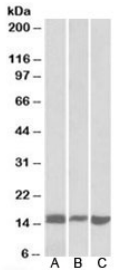
Galectin 1 Antibody (R34565)

Catalog No.	Formulation	Size
R34565-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Predicted Reactivity	Pig, Cow
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	3956
Applications	Western blot: 0.1-0.3ug/ml ELISA (peptide) LOD: 1:8000
Limitations	This Galectin 1 antibody is available for research use only.



Galectin 1 Antibody Mouse and Rat Pancreas WB. Western blot analysis of [A] mouse pancreas lysate, [B] rat pancreas lysate, and [C] NIH3T3 cell lysate using Galectin 1 antibody at 0.1 ug/ml. A distinct immunoreactive band is detected at approximately 15 kDa in all three samples, consistent with the predicted and observed 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 mouse, rat, and cultured murine cell samples demonstrates the cross-species utility of this antibody for western blot applications. Predicted/observed molecular weight: ~15 kDa.

Description

Galectin 1 Antibody recognizes Galectin-1 (LGALS1), a highly conserved beta-galactoside-binding lectin that participates in a wide range of cellular and developmental processes. As a member of the galectin family, Galectin-1 binds specific carbohydrate structures present on glycoproteins and glycolipids, allowing it to regulate cell-cell interactions, cell-matrix

adhesion, receptor organization, and intracellular signaling pathways. The protein is found in the cytoplasm, nucleus, cell surface, and extracellular environment, where it functions as an important mediator of glycan-dependent biological activity.

Galectin 1 Antibody is valuable for studying the diverse functions of LGALS1 in cellular communication and tissue homeostasis. Through its carbohydrate recognition domain, Galectin-1 can promote receptor clustering, influence signal transduction pathways, and modulate cellular responses to environmental stimuli. The protein is involved in cell growth, differentiation, migration, apoptosis, and extracellular matrix remodeling, making it relevant to numerous fields of cell biology and developmental research.

Galectin 1 Antibody is frequently employed in studies of glycobiology, vascular biology, immunology, and cancer. Altered Galectin-1 expression has been associated with changes in angiogenesis, immune regulation, tumor progression, and tissue remodeling. Because LGALS1 functions at the intersection of glycan recognition and cellular signaling, it has become an important biomarker for researchers investigating carbohydrate-mediated biological processes and the molecular mechanisms that govern normal physiology and disease development.

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.

Application Notes

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

Immunogen

Amino acids KPGECLKVRGEVASD were used as the immunogen for this Galectin 1 antibody.

Storage

Aliquot and store the Galectin 1 antibody at -20oC.

Copyright © NSJ Bioreagents. All rights reserved.