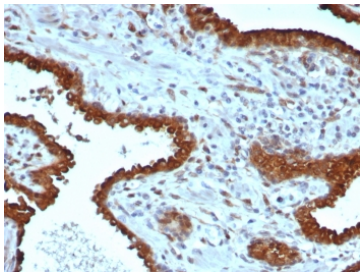
Galectin-3 Antibody LGALS3/6583 / LGALS3 Monoclonal Antibody [clone LGALS3/6583] (V4349)

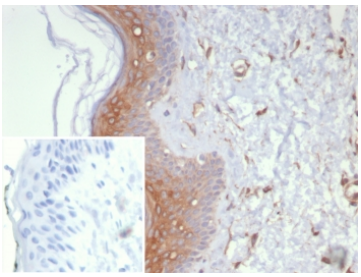
Catalog No.	Formulation	Size
V4349-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4349-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4349SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

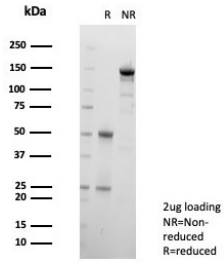
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	LGALS3/6583
Purity	Protein A/G affinity
UniProt	P17931
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This Galectin-3 Antibody LGALS3/6583 / LGALS3 Monoclonal Antibody is available for research use only.



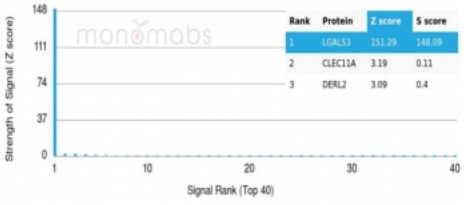
Galectin-3 Antibody by IHC in human prostate. Immunohistochemistry of FFPE human prostate tissue using Galectin-3 Antibody LGALS3/6583. Brown immunoreactivity is prominent in glandular epithelial cells, with staining involving the cytoplasm and portions of the luminal epithelial borders. Heat-induced epitope retrieval was performed by boiling sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 minutes.



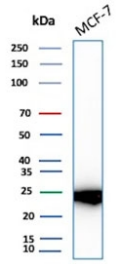
Galectin-3 Antibody by IHC in human skin. Immunohistochemistry of FFPE human skin tissue using Galectin-3 Antibody LGALS3/6583. Brown immunoreactivity is visible in the epidermis, with additional staining in selected dermal structures. The inset shows a negative control in which PBS replaced the primary antibody. Heat-induced epitope retrieval was performed by boiling sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 minutes.



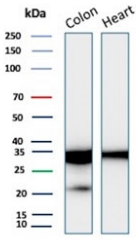
Galectin-3 Monoclonal Antibody Purity by SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Galectin-3 Antibody LGALS3/6583 under reducing (R) and non-reducing (NR) conditions, with 2 ug of antibody loaded per lane. The gel shows the intact antibody under non-reducing conditions and heavy and light chains under reducing conditions.



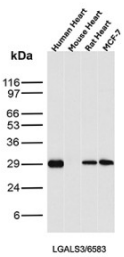
Galectin-3 Antibody Specificity by HuProt Protein Microarray. Analysis of a HuProt microarray containing more than 19,000 full-length human proteins using Galectin-3 Antibody LGALS3/6583. The graph displays antibody-binding signals ranked by Z-score, with LGALS3 identified among the detected targets. The S-score represents the difference between the highest and second-highest target Z-scores and provides a measure of relative binding specificity.



Galectin-3 Antibody by WB in human MCF-7 cells. Western blot analysis of human MCF-7 cell lysate using Galectin-3 Antibody LGALS3/6583. A band is detected near the expected molecular weight of galectin-3, approximately 26 kDa.



Galectin-3 Antibody by WB in human colon and heart. Western blot analysis of human colon and heart tissue lysates using Galectin-3 Antibody LGALS3/6583. The predicted molecular weight of galectin-3 is approximately 26 kDa.



Galectin-3 Antibody by WB in human, mouse and rat samples. Western blot analysis of human heart, mouse heart, rat heart, and human MCF-7 cell lysates using Galectin-3 Antibody LGALS3/6583. The expected molecular weight of galectin-3 is approximately 26 kDa.

Description

Galectin-3 Antibody LGALS3/6583 / LGALS3 Monoclonal Antibody recognizes galectin-3, a beta-galactoside-binding lectin encoded by the LGALS3 gene. Also known as Mac-2, CBP35, and galactoside-binding protein, galectin-3 participates in cell adhesion, immune regulation, inflammation, and tissue remodeling. It belongs to the galectin family of carbohydrate-binding proteins, which recognize specific glycan structures on glycoproteins and glycolipids. Unlike many other galectins, galectin-3 contains an N-terminal domain that supports oligomerization and a C-terminal carbohydrate recognition domain responsible for glycan binding.

Galectin-3 is found in multiple cellular compartments, including the cytoplasm, nucleus, cell surface, and extracellular environment. Its localization influences its biological activities. Intracellular galectin-3 participates in signaling pathways associated with cell survival, proliferation, and stress responses. Extracellular galectin-3 can form multivalent complexes with glycosylated proteins, contributing to receptor organization, cell adhesion, and communication between cells and their surrounding extracellular matrix.

In the immune system, galectin-3 is expressed by macrophages and several other immune cell populations. It contributes to inflammatory signaling, immune cell recruitment, and responses to tissue injury. Galectin-3 has also been investigated in fibrotic disorders, where its activities can influence fibroblast activation, extracellular matrix deposition, and tissue remodeling. These functions are relevant to research involving cardiovascular, pulmonary, hepatic, and renal fibrosis, although its contributions depend on the cellular and disease context.

Galectin-3 expression has been studied in numerous malignancies, including thyroid, breast, colorectal, and prostate cancers. The protein can influence tumor cell adhesion, migration, survival, and interactions with the tumor microenvironment. Changes in galectin-3 abundance and subcellular localization have been associated with malignant transformation and tumor progression. However, these relationships vary among cancer types, and expression patterns must be interpreted within the appropriate biological and pathological context.

The diverse functions of galectin-3 reflect its ability to participate in both intracellular regulatory mechanisms and extracellular glycan-dependent interactions. Its involvement in inflammation, fibrosis, and cellular communication makes it an important target for investigating tissue organization and disease-associated remodeling. NSJ Bioreagents offers this Galectin-3 Antibody for research examining glycan recognition, cell adhesion, inflammatory regulation, and the molecular mechanisms underlying extracellular matrix interactions.

Explore our Cell Biology Antibodies for additional research tools targeting proteins involved in cell adhesion, glycan recognition, intracellular signaling, and cell-matrix interactions.

Application Notes

Optimal dilution of the Galectin-3 Antibody LGALS3/6583 / LGALS3 Monoclonal Antibody should be determined by the researcher.

Immunogen

A portin of amino acids 150-200 from the human protein was used as the immunogen for the Galectin-3 antibody.

Storage

Aliquot the Galectin-3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

LGALS3 antibody, Galectin 3 antibody, Mac-2 antibody, Galactoside-binding lectin 3 antibody, Galactose-specific lectin 3 antibody

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