

Mouse Galectin-9 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3535

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Galectin-9 in direct ELISAs and Western blots. In Western blots, approximately 30% cross-reactivity with recombinant humar (rh) Galectin-9 is observed. In direct ELISAs and Western blots, less than 2% cross-reactivity with rhGalectin-1, rhGalectin-2, rhGalectin-3, rhGalectin-7, rhGalectin-8, recombinant mouse (rm) Galectin-1, rmGalectin-3, rmGalectin-4, and rmGalectin-7 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse Galectin-9 Ala2-Thr353; aa 148-178 deletion Accession # 008573		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

DATA

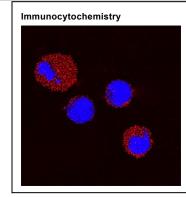
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Mouse Galectin-9	
Immunocytochemistry	5-15 μg/mL	See Below	
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	See Below	
CyTOF-ready	Ready to be labeled with conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

Intracellular Staining by Flow Cytometry 80 Relative Cell Numbe 60 40

Detection of Galectin-9 in Mouse Thymocytes by Flow Cytometry. Mouse thymocytes were stained with

Goat Anti-Mouse Galectin-9 Short Isoform Affinity-purified Polyclonal Antibody (Catalog # AF3535, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin



Galectin-9 in Mouse Splenocytes.

Galectin-9 was detected in immersion fixed mouse splenocytes using Goat Anti-Mouse Galectin-9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3535) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Galectin-9

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Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Galectin-9, also known as Ecalectin, belongs to the Galectin family (S-type lectins) of galactoside-binding proteins. It is a 36-39 kDa protein that lacks a secretion signal sequence, but can be secreted by a non-classical pathway. Galectin-9 is a tandem-repeat Galectin with two Galectin domains joined by a linker region. Two alternative spliced variants, a short and a long isoform, exist. Galectin-9 short isoform is expressed in a variety of tissues and cells, including fibroblasts, hepatocytes, endothelial cells and astrocytes. The long isoform, however, is expressed primarily in the intestine. Galectin-9 binds TIM-3 on Th1 cells, inducing apoptosis. Mouse Galectin-9 shares 69% and 85% amino acid sequence identity with human and rat Galectin-9, respectively.

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