# Mouse Galectin-9
# Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat $IgG_{2B}$ Clone # 766428

Catalog Number: IC3535G

100 Tests

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse Galectin-9 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Galectin-9 or recombinant mouse Galectin-4 is observed. |
| **Source** | Monoclonal Rat $IgG_{2B}$ Clone # 766428 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant mouse Galectin-9 (short isoform)<br>Ala2-Thr322<br>Accession # O08573-2 |
| **Conjugate** | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Formulation** | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

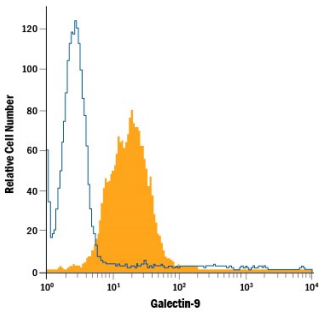
## APPLICATIONS

**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 |
|---|---|---|
| **Intracellular Staining by Flow Cytometry** | 5 µL/$10^6$ cells | See Below |

## DATA

### Intracellular Staining by Flow Cytometry




**Detection of Galectin-9 in Mouse Thymocytes by Flow Cytometry.** Mouse thymocytes were stained with Rat Anti-Mouse Galectin-9 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC3535G, filled histogram) or isotype control antibody (Catalog # IC013G, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

## PREPARATION AND STORAGE

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| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Protect from light. Do not freeze.**<br>● 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

Mouse Galectin-9 (β-Galactoside-binding Lectin 9) is a 36-39 kDa, secreted, S-type lectin. It is 353 amino acids (aa) in length and contains no identifiable signal sequence. There are two distinct carbohydrate-binding regions (aa 81-87 and 285-291) that are joined by a linker region (aa 148-205). At least one alternate splice form exists that shows a 31 aa insertion between aa 147-148. The short form is expressed on fibroblasts, hepatocytes, endothelial cells and astrocytes. The long form is expressed on intestinal epithelium. Galectin-9 binds TIM-3 on Th1 cells, inducing apoptosis. Mouse Galectin-9 is 69% and 85% aa identical to human and rat Galectin-9, respectively.

## PRODUCT SPECIFIC NOTICES

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