

DESCRIPTION

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| 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 | <i>E. coli</i> -derived recombinant mouse Galectin-9 (short isoform) Ala2-Thr322 Accession # O08573-2 |
| Conjugate | Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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 | 0.25-1 µg/10 ⁶ cells | Mouse thymocytes fixed with paraformaldehyde and permeabilized with saponin |

PREPARATION AND STORAGE

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.**

- 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 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.

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