

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	<i>E. coli</i> -derived recombinant mouse Galectin-9 (short isoform) Ala2-Thr322 Accession # O08573-2
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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. <ul style="list-style-type: none"> ● 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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