

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 766428
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Galectin-9 (short isoform) Ala2-Thr322 Accession # O08573-2
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse thymocytes fixed with paraformaldehyde and permeabilized with saponin

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### 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.

#### PRODUCT SPECIFIC NOTICES

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