

DESCRIPTION

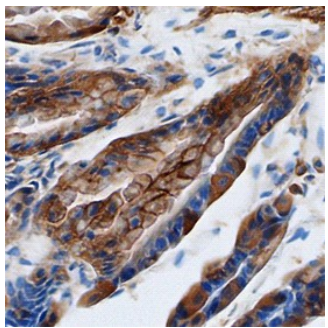
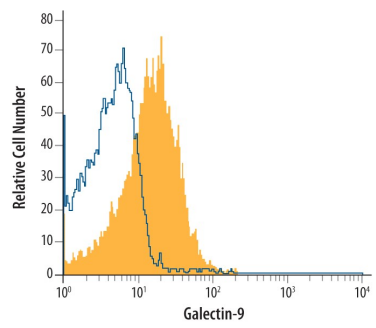
Species Reactivity	Mouse
Specificity	Detects mouse Galectin-9 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Galectin-9 or recombinant mouse Galectin-4 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 766428
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Galectin-9 (short isoform) Ala2-Thr322 Accession # O08573-2
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

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
Immunohistochemistry	8-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Immunohistochemistry</p>  <p>Galectin-9 in Mouse Colon. Galectin-9 was detected in perfusion fixed frozen sections of mouse colon using Rat Anti-Mouse Galectin-9 Monoclonal Antibody (Catalog # MAB3535) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes and cytoplasm of epithelial cells. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>	<p>Intracellular Staining by Flow Cytometry</p>  <p>Detection of Galectin-9 in Mouse Thymocytes by Flow Cytometry. Mouse thymocytes were stained with Rat Anti-Mouse Galectin-9 Monoclonal Antibody (Catalog # MAB3535, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.</p>
---	--

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <ul style="list-style-type: none"> ● 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

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.