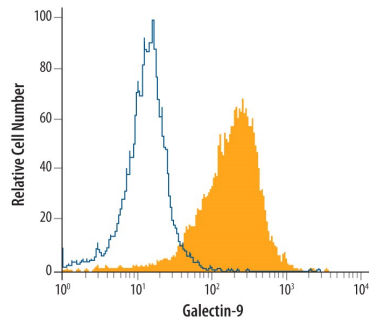
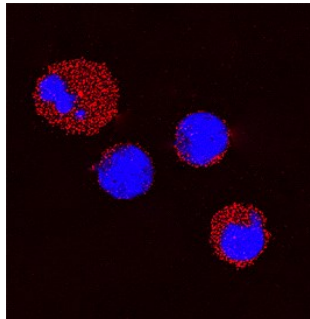


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse Galectin-9 in direct ELISAs and Western blots. In Western blots, approximately 30% cross-reactivity with recombinant human (rh) Galectin-9 is observed. In direct ELISAs and Western blots, less than 2% cross-reactivity with rhGalectin-1, rhGalectin-2, rhGalectin-3, rhGalectin-7, rhGalectin-8, recombinant mouse (rm) Galectin-1, rmGalectin-3, rmGalectin-4, and rmGalectin-7 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Galectin-9 Ala2-Thr353; aa 148-178 deletion Accession # O08573
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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Galectin-9
Immunocytochemistry	5-15 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>Intracellular Staining by Flow Cytometry</p>  <p>Detection of Galectin-9 in Mouse Thymocytes by Flow Cytometry. Mouse thymocytes were stained with Goat Anti-Mouse Galectin-9 Short Isoform Affinity-purified Polyclonal Antibody (Catalog # AF3535, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.</p>	<p>Immunocytochemistry</p>  <p>Galectin-9 in Mouse Splenocytes. Galectin-9 was detected in immersion fixed mouse splenocytes using Goat Anti-Mouse Galectin-9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3535) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>

PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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

Galectin-9, also known as Ecalectin, belongs to the Galectin family (S-type lectins) of galactoside-binding proteins. It is a 36-39 kDa protein that lacks a secretion signal sequence, but can be secreted by a non-classical pathway. Galectin-9 is a tandem-repeat Galectin with two Galectin domains joined by a linker region. Two alternative spliced variants, a short and a long isoform, exist. Galectin-9 short isoform is expressed in a variety of tissues and cells, including fibroblasts, hepatocytes, endothelial cells and astrocytes. The long isoform, however, is expressed primarily in the intestine. Galectin-9 binds TIM-3 on Th1 cells, inducing apoptosis. Mouse Galectin-9 shares 69% and 85% amino acid sequence identity with human and rat Galectin-9, respectively.