

**Pacific Blue™ anti-human Galectin-9**

**Catalog # / Size:** 2344570 / 100 tests  
2344565 / 25 tests

**Clone:** 9M1-3

**Isotype:** Mouse IgG1, κ

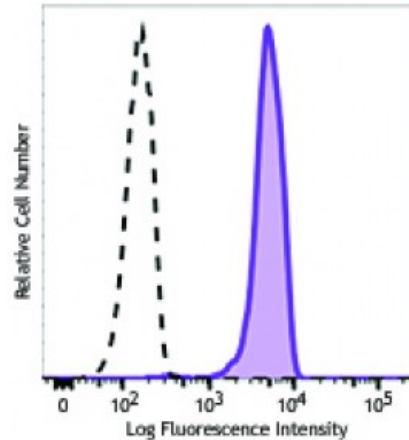
**Immunogen:** Recombinant peptide from C-terminus of Galectin-9

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human T-lymphoblastic leukemia cell line, MOLT-4, was fixed, permeabilized, and then stained with human Galectin-9 (clone 9M1-3) Pacific Blue™ (filled histogram) or mouse IgG1, κ Pacific Blue™ isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**Application Notes:** Additional reported applications (for the relevant formats) include: cell surface staining for flow cytometry<sup>1</sup> and blocking of TIM-3 binding to galectin-9<sup>1</sup>.

**Application References:** 1. Klibi J, *et al.* 2009. *Blood* 113:1957. (FC, Block)  
2. Sada-Ovalle I, *et al.* 2012. *J. Immunol.* 189:5896. [PubMed](#)

**Description:** Galectin-9 is a mammalian lectin with a molecular weight around 50 kD. It is a member of the β-galactoside-binding family. With two conserved carbohydrate recognition domains (CRDs), galectin-9 binds small β-galactosides as well as complex glycoconjugates. HAVCR2/TIM3 has been reported as one of its ligands. Galectin-9 may be retained intracellularly or transported to the cell surface where it can be cleaved to generate a soluble form. Galectin-9 is expressed by lymphocytes, dendritic cells, granulocytes, eosinophils, astrocytes, endothelial cells, fibroblasts, and thymus epithelial cells. It can be induced by cytokines in various cell types and is involved in cell aggregation, adhesion, chemotaxis, and apoptosis; galectin-9 induces regulatory T cells and suppresses Th1 and Th17 responses.

**Antigen** 1. Seki M, *et al.* 2008. *Clin. Immunol.* 127:78.

- References:**
2. Tsuboi Y, *et al.* 2007. *Clin. Immunol.* 124:221.
  3. Zhu C, *et al.* 2005. *Nat. Immunol.* 6:1245.
  4. Dunphy JL, *et al.* 2002.