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**Brilliant Violet 421™ anti-human Galectin-9****Catalog # /** 2344600 / 100 tests**Size:** 2344595 / 25 tests**Clone:** 9M1-3**Isotype:** Mouse IgG1,  $\kappa$ **Reactivity:** Human, Non-human primate**Concentration:** Lot-specific**Applications:****Applications:** Immunohistochemistry**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 5$  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.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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**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-91.

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**Description:** Galectin-9 is a mammalian lectin with a molecular weight around 50 kD. It is a member of the  $\beta$ -galactoside-binding family. With two conserved carbohydrate recognition domains (CRDs), galectin-9 binds small  $\beta$ -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.