

**Rabbit Anti-Galectin-9 [MD53R]: RM0417, RM0417RTU7**

**Intended Use:** For Research Use Only

**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.

**Specifications**

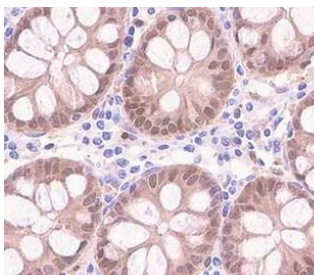
Clone: MD53R  
 Source: Rabbit  
 Reactivity: Human  
 Isotype: IgG  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., WB  
 Package:

Description	Catalog No.	Size
Galectin-9 Concentrated	RM0417	1 ml
Galectin-9 Prediluted	RM0417RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Tonsil  
 Concentrated Dilution: 25-100  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human colon stained with anti-Galectin-9 using DAB

**References:**

1. PD-1+Tim-3+ CD8+ T Lymphocytes Display Varied Degrees of Functional Exhaustion in Patients with Regionally Metastatic Differentiated Thyroid Cancer. Severson JJ, et al. Cancer Immunol Res 3:620-30, 2015.
2. Decreased galectin-9 and increased Tim-3 expression are related to poor prognosis in gastric cancer. Jiang J, et al. PLoS One 8:e81799, 2013.
3. A novel monoclonal antibody for detection of galectin-9 in tissue sections: application to human tissues infected by oncogenic viruses. Barjon C, et al. Infect Agent Cancer 7:16, 2012.