

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 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.

Specifications

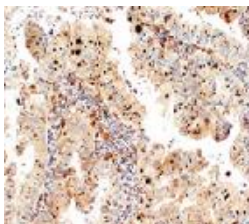
Clone: MD53R
 Source: Rabbit
 Reactivity: Human
 Isotype: IgG
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., WB
 Package:

| 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: Citrate pH6.0 or EDTA pH8.0, 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 non-small cell lung carcinoma 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.