SONY

Product Data Sheet

APC anti-mouse Galectin-9

Catalog # / Size: 1280550 / 100 µg
1280545 / 25 µg

Clone: RG9-35

Isotype: Rat IgG2a, κ

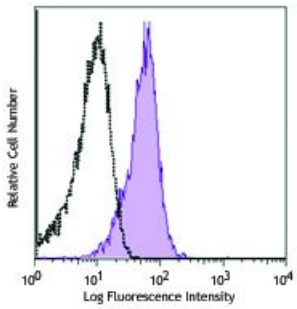
Immunogen: Recombinant mouse galectin-9

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse thymocytes were fixed, permeabilized and then stained with Galectin-9 (clone RG9-35) APC (filled histogram) or rat IgG2a, κAPC isotype control (open histogram).

Applications:

Applications: Intracellular Staining for Flow Cytometry

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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Fukushima A, *et al.* 2008. *Int. Arch. Allergy Immunol.* 146:36. (FA)
2. Hou H, *et al.* 2014. *PLoS One.* 9:110585. PubMed

Description: Galectin-9 is a mammalian lectin with a molecular weight of 40 kD that has two conserved carbohydrate recognition domains (CRDs) and forms homodimers. It recognizes N-acetyllactosamine (Galbeta1-4GlcNAc) and T-antigen (Galbeta1-3GalNAc). Tim-3 has been reported as its ligand. Galectin-9 is expressed by lymphocytes, dendritic cells, granulocytes, eosinophils, astrocytes, endothelial cells, fibroblasts, and thymus epithelial cells. It may be retained intracellularly or transported to the cell surface whereby cleavage generates a soluble form. Galectin-9 is involved in events such as cell aggregation, adhesion, chemotaxis, and apoptosis, and is important for the regulation of the immune response. Galectin-9 induces regulatory T cells, and suppresses Th1 and Th17 responses.

Antigen References:

1. Klibi J, *et al.* 2009. *Blood* 113:1957
2. Seki M, *et al.* 2008. *Clin Immunol* 127:78
3. Tsuboi Y, *et al.* 2007. *Clin Immunol* 124:221
4. Zhu C, *et al.* 2005. *Nat Immunol* 6:1245
5. Dunphy JL, *et al.* 2002. *J. Biol. Chem.* 277:14916

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