

APC anti-mouse Galectin-9 Antibody

Catalog# / Size	137911 / 25 µg 137912 / 100 µg
Clone	108A2
Regulatory Status	RUO
Other Names	Lgals9, Gal-9, Ecalectin
Isotype	Rat IgG2a, κ
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-acetylglucosamine (Galβ1-4GlcNAc) and T-antigen (Galβ1-3GalNAc); 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 be transported to the cell surface where it is cleaved, thereby generating a soluble form. Galectin-9 is involved in events such as cell aggregation, cell adhesion, chemotaxis and apoptosis. Importantly for the regulation of the immune response, Galectin-9 induces regulatory T cells and suppresses Th1 and Th17 responses.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Full length recombinant mouse Galectin-9 (M-type)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone 108A2 recognizes the linker peptide of mouse Galectin-9; it does not cross-react with stable Galectin-9 (which is biologically active, genetically engineered, linker-less Galectin-9) ³ . Additional reported applications (for the relevant formats) include: sandwich ELISA as capture antibody ¹ and immunohistochemical staining of paraffin ² embedded tissue sections.
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Tsuboi Y, <i>et al.</i> 2007. <i>Clin. Immunol.</i> 124:221. (ELISA) 2. Personal communication. (IHC-Paraffin) 3. Oomizu S, <i>et al.</i> 2012. <i>PLoS One.</i> 7:e48574. PubMed 4. Madireddi S, <i>et al.</i> 2014. <i>J Exp Med.</i> 211:1433. PubMed
Product Citations	<ol style="list-style-type: none"> 1. de Mingo Pulido, <i>et al.</i> 2021. <i>Immunity.</i> 54(6):1154-1167.e7. PubMed 2. Potluri HK, <i>et al.</i> 2022. <i>J Immunother Cancer.</i> 10:. PubMed 3. Baloch V, <i>et al.</i> 2021. <i>Scientific Reports.</i> 11(1):5227. PubMed

RRID AB_2750154 (BioLegend Cat. No. 137911)
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Antigen Details

Structure	Homodimer, each chain is a 343 aa protein of 40 kD that has two conserved carbohydrate recognition domains (CRDs)
Distribution	Lymphocytes, dendritic cells, neutrophils, eosinophils, astrocytes, endothelial cells, fibroblasts, thymus stromal/epithelial cells
Function	Cell aggregation, cell adhesion, chemotaxis, apoptosis, suppression of Th1 and Th17 responses, induction of regulatory T cells
Ligand/Receptor	Tim-3
Cell Type	Astrocytes, Dendritic cells, Endothelial cells, Eosinophils, Epithelial cells, Fibroblasts, Lymphocytes, Neutrophils, Tregs
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Adhesion, Cell Biology, Cell Motility/Cytoskeleton/Structure, Immunology
Molecular Family	Adhesion Molecules, Immune Checkpoint Receptors
Antigen References	<ol style="list-style-type: none">1. Klibi J, <i>et al.</i> 2009. <i>Blood</i> 113:1957.2. Seki M, <i>et al.</i> 2008. <i>Clin. Immunol.</i> 127:78.3. Tsuboi Y, <i>et al.</i> 2007. <i>Clin. Immunol.</i> 124:221.4. Zhu C, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:1245.5. Dunphy JL, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:14916.
Gene ID	16859

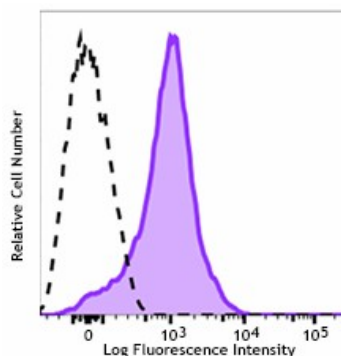
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Galectin-9, PE anti-mouse Galectin-9, Alexa Fluor® 594 anti-mouse Galectin-9, Alexa Fluor® 488 anti-mouse Galectin-9, PE/Cyanine7 anti-mouse Galectin-9, APC anti-mouse Galectin-9, Alexa Fluor® 647 anti-mouse Galectin-9

Product Data



C57BL/6 mouse thymocytes were stained with anti-mouse Galectin-9 (clone 108A2) APC (closed histogram) or rat IgG2a, κ APC isotype control (open histogram).

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