

Ultra-LEAF™ Purified anti-mouse Galectin-9 Antibody

Catalog# / Size	136115 / 100 µg 136116 / 1 mg
Clone	RG9-35
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 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse galectin-9
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	ICFC - Quality tested FA - Reported in the literature, not verified in house
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 ≤ 0.5 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, <i>et al.</i> 2008. <i>Int. Arch. Allergy Immunol.</i> 146:36. (FA) 2. Hou H, <i>et al.</i> 2014. <i>PLoS One.</i> 9:110585. PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_2860679 (BioLegend Cat. No. 136115) AB_2832493 (BioLegend Cat. No. 136116)

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
Bioactivity	Chemotaxis, apoptosis, cell adhesion
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

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse Galectin-9, APC anti-mouse Galectin-9, PerCP/Cyanine5.5 anti-mouse Galectin-9, PE/Cyanine7 anti-mouse Galectin-9, Ultra-LEAF™ Purified anti-mouse Galectin-9

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587