

## Brilliant Violet 421™ anti-mouse Galectin-9 Antibody

<b>Catalog# / Size</b>	136119 / 50 µg
<b>Clone</b>	RG9-35
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Lgals9, Gal-9, Ecalectin
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	<p>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.</p>

### Product Details

---

<b>Isotype Control</b>	<a href="#">Brilliant Violet 421™ Rat IgG2a, κ Isotype Ctrl</a>
<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Recombinant mouse galectin-9
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a>. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 nm)

## 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](#)

(PubMed link indicates BioLegend citation)

RRID AB\_3683159 (BioLegend Cat. No. 136119)

## Antigen Details

<b>Structure</b>	Homodimer, each chain is a 343 aa protein of 40 kD that has two conserved carbohydrate recognition domains (CRDs)
<b>Distribution</b>	Lymphocytes, dendritic cells, neutrophils, eosinophils, astrocytes, endothelial cells, fibroblasts, thymus stromal/epithelial cells
<b>Function</b>	Cell aggregation, cell adhesion, chemotaxis, apoptosis, suppression of Th1 and Th17 responses, induction of regulatory T cells
<b>Ligand/Receptor</b>	Tim-3
<b>Bioactivity</b>	Chemotaxis, apoptosis, cell adhesion
<b>Cell Type</b>	Astrocytes, Dendritic cells, Endothelial cells, Eosinophils, Epithelial cells, Fibroblasts, Lymphocytes, Neutrophils, Tregs
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cell Adhesion, Cell Biology, Cell Motility/Cytoskeleton/Structure, Immunology
<b>Molecular Family</b>	Adhesion Molecules, Immune Checkpoint Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Klibi J, <i>et al.</i> 2009. <i>Blood</i> 113:1957</li><li>2. Seki M, <i>et al.</i> 2008. <i>Clin Immunol</i> 127:78</li><li>3. Tsuboi Y, <i>et al.</i> 2007. <i>Clin Immunol</i> 124:221</li><li>4. Zhu C, <i>et al.</i> 2005. <i>Nat Immunol</i> 6:1245</li><li>5. Dunphy JL, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:14916</li></ol>
<b>Gene ID</b>	<a href="#">16859</a>

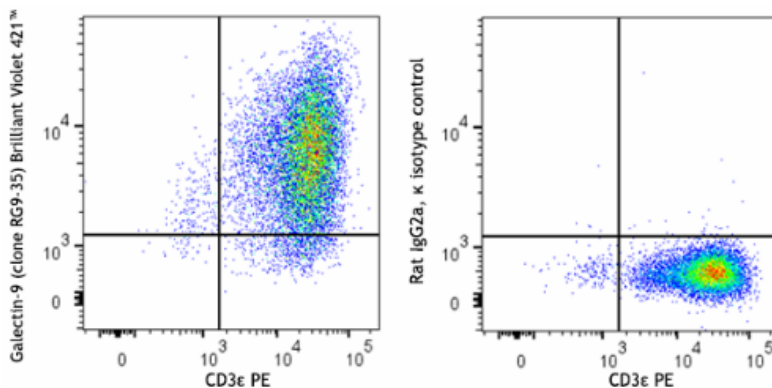
## Related Protocols

- [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, TotalSeq™-B1288 anti-mouse Galectin-9, Brilliant Violet 421™ anti-mouse Galectin-9, TotalSeq™-C1288 anti-mouse Galectin-9 Antibody

## Product Data



C57BL/6 mouse thymocytes were surface stained with anti-mouse CD3ε (clone 145-2C11) PE. Cells were then fixed with Fixation Buffer (Cat. No. 420801), permeabilized with Intracellular Staining Permeabilization Wash Buffer (Cat. No. 421002) and intracellularly stained with anti-mouse Galectin-9 (clone RG9-35) Brilliant Violet 421™ or rat IgG2a, κ Brilliant Violet 421™ isotype control.

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at [www.biolegend.com/terms](http://www.biolegend.com/terms) ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

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