

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

Catalog# / Size	348925 / 100 µg 348926 / 1 mg
Clone	9M1-3
Regulatory Status	RUO
Other Names	Lgals9, Gal-9, Ecalectin, Tumor antigen HOM-HD-21, Ecalectin
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant peptide from C-terminus of 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 FC, Block - Reported in the literature, not verified in house
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.
Application Notes	Additional reported applications (for the relevant formats) include: cell surface staining for flow cytometry ¹ and blocking of TIM-3 binding to galectin-9 ¹ .
Application References	1. Klibi J, <i>et al.</i> 2009. <i>Blood</i> 113:1957. (FC, Block) 2. Sada-Ovalle I, <i>et al.</i> 2012. <i>J. Immunol.</i> 189:5896. PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_2819990 (BioLegend Cat. No. 348925) AB_2819991 (BioLegend Cat. No. 348926)

Antigen Details

Structure	Member of the β -galactoside-binding lectin family. Molecular weight around 50 kD. Binds small β -galactosides as well as complex glycoconjugates with two conserved carbohydrate recognition domains (CRDs).
Distribution	Lymphocytes, dendritic cells, neutrophils, eosinophils, astrocytes, endothelial cells, fibroblasts, thymus stromal/epithelial cells.
Function	Cell aggregation, adhesion, chemotaxis, apoptosis, suppression of Th1 and Th17 responses, and induction of regulatory T cells.
Ligand/Receptor	HAVCR2/TIM3
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. Seki M, <i>et al.</i> 2008. <i>Clin. Immunol.</i> 127:78.2. Tsuboi Y, <i>et al.</i> 2007. <i>Clin. Immunol.</i> 124:221.3. Zhu C, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:1245.4. Dunphy JL, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:14916.
Gene ID	3965

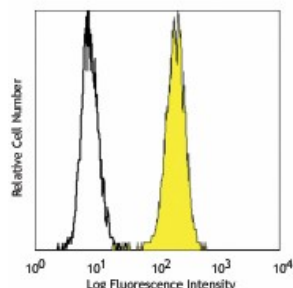
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human Galectin-9, PE anti-human Galectin-9, APC anti-human Galectin-9, PerCP/Cyanine5.5 anti-human Galectin-9, FITC anti-human Galectin-9, Alexa Fluor® 488 anti-human Galectin-9, PE/Cyanine7 anti-human Galectin-9, Brilliant Violet 421™ anti-human Galectin-9, Alexa Fluor® 594 anti-human Galectin-9, Alexa Fluor® 647 anti-human Galectin-9, Ultra-LEAF™ Purified anti-human Galectin-9

Product Data



Human acute lymphoblastic leukemia cell line MOLT-4 intracellularly stained with purified 9M1-3 conjugated with PE

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