

## Purified anti-mouse/human Galectin-3 (Mac-2) Antibody

<b>Catalog# / Size</b>	126701 / 50 µg 126702 / 500 µg
<b>Clone</b>	Gal397
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Galectin-3, Mac-2, Gal-3, RL-29, galactose-specific lectin 3, CBP-35, L-34, εBP
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	Galectin-3 (galactose-specific lectin 3) is a glycoprotein, also known as Mac-2, Gal-3, RL-29, galactose-specific lectin 3, CBP-35, L-34, and εBP. It is a member of animal β-galactoside-binding protein family that is expressed in cell nucleus, cytoplasm, plasma membrane, or extracellular matrix by variety of tumor cells, monocytes/macrophages, epithelial cells, Kupffer cells, and dendritic cells. Galectin-3 contains carbohydrate recognition domains and binds to β-galactoside residues bearing glycoproteins, such as as IgE, IgA, galactose, casein kinase I, laminin, mucin, LAMPs, and CD66. Galectin-3 is an adhesion molecule and plays an important role in regulation of cell proliferation, differentiation and tumor cell metastasis. Galectin-3 structurely possesses NWGR motif that is conserved in BH-1 domain of BCL-2 family and functions as an anti-apoptotic molecule.

### Product Details

<b>Verified Reactivity</b>	Mouse, Human
<b>Reported Reactivity</b>	African Green, Baboon, Cynomolgus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human Recombinant (partial), amino acids 151-251
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">WB - Quality tested</a> <a href="#">ICC - Verified</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested use of this reagent is 1.0 µg per ml. For immunocytochemistry, a concentration of ≤ 0.5 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	Based on immunogen information, clone Gal397 may recognize African Green Baboon and Cynomolgus. It is recommended to test the reagent for optimal performance for other species. Due to in-house testing, the purified format is not recommended for flow cytometry and intracellular flow cytometry.
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Bülck C, <i>et al.</i> 2023. Sci Adv. 9:eadf4055. <a href="#">PubMed</a></li> <li>2. Pang W, <i>et al.</i> 2023. iScience. 26:106579. <a href="#">PubMed</a></li> <li>3. Palau V, <i>et al.</i> 2021. Int J Mol Sci. 23:. <a href="#">PubMed</a></li> <li>4. Palau V, <i>et al.</i> 2021. Int J Mol Sci. 22:. <a href="#">PubMed</a></li> <li>5. Joeh E, <i>et al.</i> 2021. Curr Protoc. 1:e104. <a href="#">PubMed</a></li> <li>6. Feng T, <i>et al.</i> 2020. EMBO Rep. 21:e50219. <a href="#">PubMed</a></li> <li>7. Du H, <i>et al.</i> 2021. Life Sci Alliance. 4: . <a href="#">PubMed</a></li> </ol>
<b>RRID</b>	AB_1134255 (BioLegend Cat. No. 126701) AB_1134256 (BioLegend Cat. No. 126702)

## Antigen Details

---

<b>Structure</b>	Human Galectin-3 has 250 amino acids with a predicted molecular weight of 26 kD. Mouse Galectin-3 has 264 amino acids with a predicted molecular weight of 27.5 kD.
<b>Distribution</b>	Localized in the nucleus, cytoplasm, cell surface, or extracellular matrix. Expressed by tumor cells, monocytes/macrophages, epithelial cells, Kupffer cells, dendritic cells
<b>Function</b>	Regulate cell proliferation and differentiation, adhesion, anti-apoptosis
<b>Ligand/Receptor</b>	Variety ligands, such as IgE, IgA, galactose, casein kinase I, laminin, mucin, LAMPs, CD66, etc
<b>Cell Type</b>	Dendritic cells, Epithelial cells, Macrophages, Monocytes
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Cell Cycle/DNA Replication, Immunology, Innate Immunity
<b>Molecular Family</b>	Adhesion Molecules

### Antigen References

1. Kim HRC, *et al.* 1999. *Cancer Res.* 59:4148
2. Reljic R, *et al.* 2004. *Immunol. Lett.* 93:51.
3. Takenaka Y *et al.* 2004. *Mol. and Cell. Biol.* 24:4395
4. Joo GH, *et al.* 2001. *J. Leukoc. Biol.* 69:555
5. Llinas L, *et al.* 2011. *Immunol. Lett.* 134:113-21
6. Cabezon R, *et al.* 2011. *Immunol. Lett.* 134:167-73

**Gene ID** [16854](#)  
[3958](#)

## Related Protocols

---

- [Cell Surface Flow Cytometry Staining Protocol](#)
- [Immunocytochemistry Staining Protocol](#)
- [Western Blotting Protocol](#)

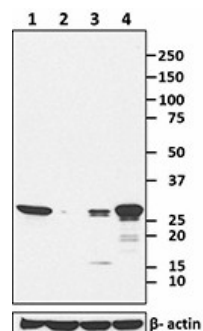
## Other Formats

---

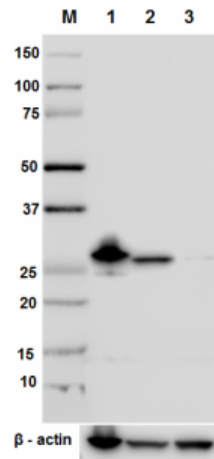
PE anti-mouse/human Galectin-3 (Mac-2), Purified anti-mouse/human Galectin-3 (Mac-2)

## Product Data

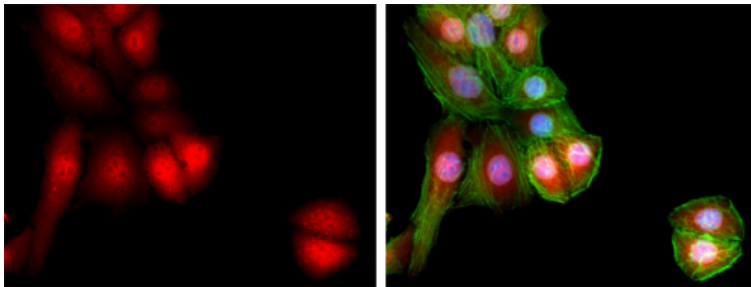
---



Total cell lysate from MCF7 cells (lane 1, 15  $\mu$ g), Jurkat cells (lane 2, 15  $\mu$ g), 3T3-L1 (lane 3, 15  $\mu$ g) and Raw264.7 (lane 4, 15  $\mu$ g) were resolved by electrophoresis (4-20% Tris-Glycine gel), transferred to nitrocellulose, and probed with purified anti-mouse/human Galectin-3 (Mac-2) antibody (clone Gal397). Proteins were visualized using an HRP Goat anti-mouse IgG Antibody and chemiluminescence detection. Direct-Blot™ HRP anti- $\beta$ -actin antibody (clone 2F1-1) was used as a loading control.



Total cell lysates (15  $\mu$ g protein) from NIH3T3 (lane 1), HT29 (lane 2) and 293E (lane 3) cells were resolved by electrophoresis (4-20% Tris-Glycine gel), transferred to nitrocellulose, and probed with 1  $\mu$ g/mL (1:500 dilution) of purified anti-mouse/human Galectin-3 (Mac-2) antibody (clone Gal397) (upper blot). Proteins were visualized by chemiluminescence detection using a 1:3000 diluted goat anti-mouse-IgG secondary antibody conjugated to HRP for anti-mouse/human Galectin-3 (Mac-2) antibody or 1:5000 diluted Direct-Blot HRP anti- $\beta$ -Actin antibody, clone 2F1-1 (lower blot). Lane M: Molecular weight ladder.



HeLa cells were stained with purified anti-Galectin 3 (Gal397) antibody, followed by staining with DyLight™ 594 conjugated goat anti-mouse IgG (red) antibody. Actin filaments were labeled in green. Nuclei were stained with DAPI (blue).

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