

# LGALS3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11938b

## Product Information

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|--------------------------|-----------------------------|
| <b>Application</b>       | WB, FC, E                   |
| <b>Primary Accession</b> | <a href="#">P17931</a>      |
| <b>Other Accession</b>   | <a href="#">NP_002297.2</a> |
| <b>Reactivity</b>        | Human                       |
| <b>Predicted</b>         | Mouse, Rat, Rabbit          |
| <b>Host</b>              | Rabbit                      |
| <b>Clonality</b>         | Polyclonal                  |
| <b>Isotype</b>           | Rabbit IgG                  |
| <b>Clone Names</b>       | RB31668                     |
| <b>Calculated MW</b>     | 26152                       |
| <b>Antigen Region</b>    | 163-191                     |

## Additional Information

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| <b>Gene ID</b>            | 3958                                                                                                                                                                                                                                     |
| <b>Other Names</b>        | Galectin-3, Gal-3, 35 kDa lectin, Carbohydrate-binding protein 35, CBP 35, Galactose-specific lectin 3, Galactoside-binding protein, GALBP, IgE-binding protein, L-31, Laminin-binding protein, Lectin L-29, Mac-2 antigen, LGALS3, MAC2 |
| <b>Target/Specificity</b> | This LGALS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-191 amino acids from the C-terminal region of human LGALS3.                                                                 |
| <b>Dilution</b>           | WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.                                                                                                                                                                       |
| <b>Format</b>             | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.                                                 |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                                                                                  |
| <b>Precautions</b>        | LGALS3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                               |

## Protein Information

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|-------------|--------------------------------------|
| <b>Name</b> | LGALS3 ( <a href="#">HGNC:6563</a> ) |
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| <b>Synonyms</b>          | MAC2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Function</b>          | Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis (By similarity). In the nucleus: acts as a pre-mRNA splicing factor. Involved in acute inflammatory responses including neutrophil activation and adhesion, chemoattraction of monocytes macrophages, opsonization of apoptotic neutrophils, and activation of mast cells. Together with TRIM16, coordinates the recognition of membrane damage with mobilization of the core autophagy regulators ATG16L1 and BECN1 in response to damaged endomembranes. |
| <b>Cellular Location</b> | Cytoplasm. Nucleus. Secreted. Note=Secreted by a non- classical secretory pathway and associates with the cell surface. Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum- Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059).                                                                                                                                                                                                                                                                                                 |
| <b>Tissue Location</b>   | A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Background

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This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. Alternate splicing results in multiple transcript variants.

## References

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 Markowska, A.I., et al. J. Exp. Med. 207(9):1981-1993(2010)  
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