

**LGALS3 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13725b****Specification**

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**LGALS3 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [P17931](#)**LGALS3 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 3958**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13725b was selected from the C-term region of LGALS3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LGALS3 Antibody (C-term) Blocking peptide - Protein Information****Name** LGALS3 ([HGNC:6563](#))**Synonyms** MAC2**Function**

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.

**Cellular Location**

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).

**Tissue Location**

A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.

**LGALS3 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**LGALS3 Antibody (C-term) Blocking peptide - Images****LGALS3 Antibody (C-term) Blocking peptide - Background**

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.

**LGALS3 Antibody (C-term) Blocking peptide - References**

Salomonsson, E., et al. J. Biol. Chem. 285(45):35079-35091(2010) Debierre-Grockiego, F., et al. J. Biol. Chem. 285(43):32744-32750(2010) Zhou, J.Y., et al. J. Proteome Res. 9(10):5133-5141(2010) Markowska, A.I., et al. J. Exp. Med. 207(9):1981-1993(2010) Mazurek, N., et al. J. Biol. Chem. 275(46):36311-36315(2000)