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LGALS3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13725b

Specification

LGALS3 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P17931
Other Accession	NP_002297.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**167-196**

LGALS3 Antibody (C-term) - 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
This LGALS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 167-196 amino acids from the C-terminal region of human LGALS3.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
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.

Precautions
LGALS3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LGALS3 Antibody (C-term) - 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).

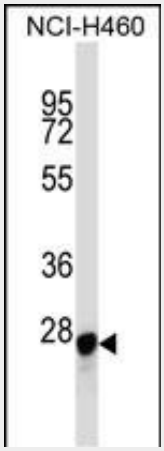
Tissue Location
A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.

LGALS3 Antibody (C-term) - Protocols

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

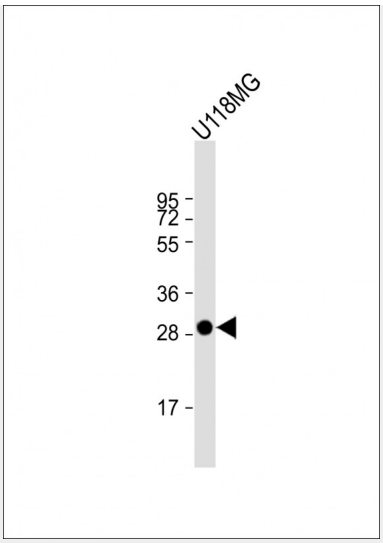
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LGALS3 Antibody (C-term) - Images

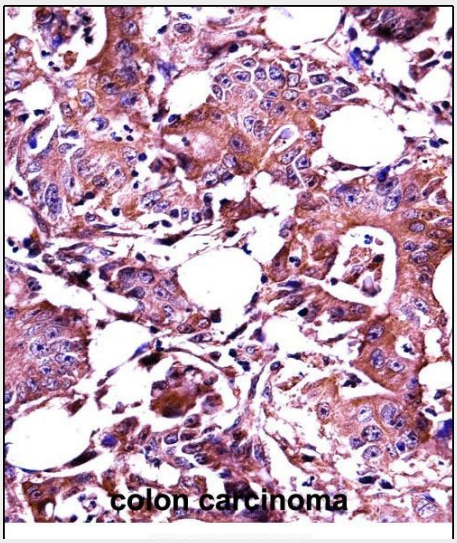


LGALS3 Antibody (C-term) (Cat. #AP13725b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the LGALS3 antibody detected the LGALS3 protein (arrow).

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Anti-LGALS3 Antibody (C-term) at 1:1000 dilution + U118MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



LGALS3 Antibody (C-term) (AP13725b)immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of LGALS3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

LGALS3 Antibody (C-term) - 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) - 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)

LGALS3 Antibody (C-term) - Citations

- Expression of the Carboxy-Terminal Portion of MUC16/CA125 Induces Transformation and Tumor Invasion.