

Anti-Galectin-3/LGALS3 Antibody

Catalog # ABO11793

Product Information

Application	WB, IHC-P
Primary Accession	P17931
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Galectin-3(LGALS3) detection. Tested with WB, IHC-P in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	26152
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Cytoplasm. Nucleus. Secreted. Secreted by a non-classical secretory pathway and associates with the cell surface.
Tissue Specificity	A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes. .
Source	Eukaryota
Protein Name	Galectin-3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human Galectin 3 recombinant protein (Position: K139-I250). Human Galectin 3 shares 88% and 84% amino acid (aa) sequences identity with mouse and rat Galectin 3, respectively.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 galectin domain.

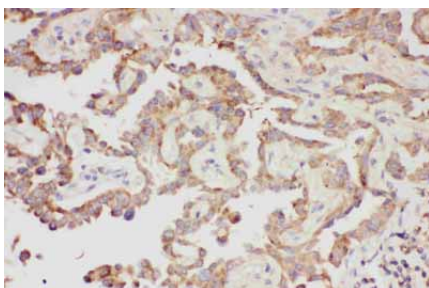
Protein Information

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.

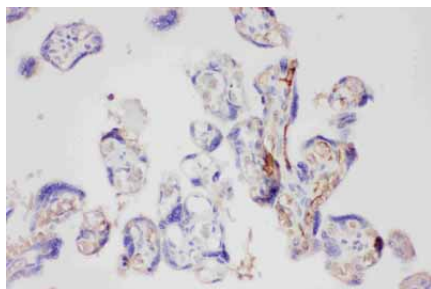
Background

Galectin-3(GAL3), also known as LGALS3, MAC2 or GALBP, is a member of the lectin family, of which 14 mammalian galectins have been identified. Galectin-3 is encoded by a single gene, it located on chromosome 14, locus q21 ÷ q22. It is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. Studies have also shown that the expression of galectin-3 is implicated in a variety of processes associated with heart failure, including myofibroblast proliferation, fibrogenesis, tissue repair, inflammation, and Ventricular remodeling. Galectin-3 is expressed in various tissues and organs, but is significantly absent in normal hepatocytes.

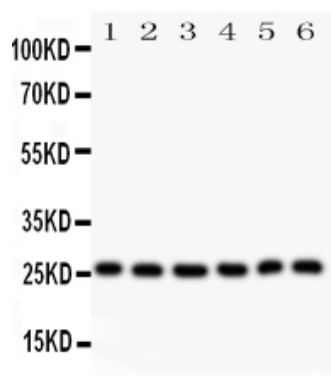
Images



Anti-Galectin 3 Picoband antibody,
ABO11793-1.JPGIHC(P): Human Lung Cancer Tissue



Anti-Galectin 3 Picoband antibody,
ABO11793-2.JPGIHC(P): Human Placenta Tissue



Anti-Galectin 3 Picoband antibody, ABO11793-3.jpgAll
lanes: Anti-Galectin-3(ABO11793) at 0.5ug/mlLane 1: Hela
Whole Cell Lysate at 40ugLane 2: SGC Whole Cell Lysate at
40ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4:
SW620 Whole Cell Lysate at 40ugLane 5: A375 Whole Cell
Lysate at 40ugLane 6: Smmc Whole Cell Lysate at
40ugPredicted bind size: 26KDObserved bind size: 26KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.