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Anti-Galectin-3/LGALS3 Antibody

Catalog # ABO11970

Product Information

Application	WB, IHC-P
Primary Accession	P16110
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Galectin-3(LGALS3) detection. Tested with WB, IHC-P in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Other Names	Galectin-3, Gal-3, 35 kDa lectin, Carbohydrate-binding protein 35, CBP 35, Galactose-specific lectin 3, IgE-binding protein, L-34 galactoside-binding lectin, Laminin-binding protein, Lectin L-29, Mac-2 antigen, Lgals3
Calculated MW	27515
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Mouse
Subcellular Localization	Cytoplasm. Nucleus. Secreted. Secreted by a non-classical secretory pathway and associates with the cell surface.
Tissue Specificity	The highest levels are found in activated macrophages.
Source	Eukaryota
Protein Name	Galectin-3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived mouse Galectin 3 recombinant protein (Position: K153-I264). Mouse Galectin 3 shares 88% and 91% amino acid (aa) sequence identity with human 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.

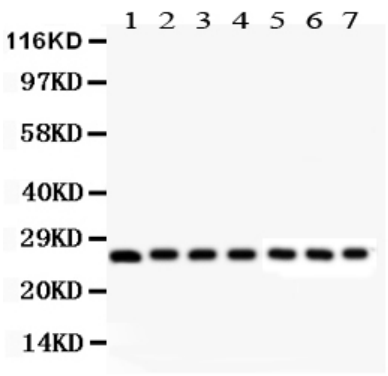
Protein Information

Name	Lgals3
Function	Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration (PubMed:15181153). Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis. 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 (By similarity). When secreted, interacts with NK cell-activating receptor NCR3/NKp30 acting as an inhibitory ligand which antagonizes NK cell attack (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P17931}. Nucleus {ECO:0000250|UniProtKB:P17931}. Secreted {ECO:0000250|UniProtKB:P17931}. 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. {ECO:0000250|UniProtKB:P17931}
Tissue Location	The highest levels are found in activated macrophages

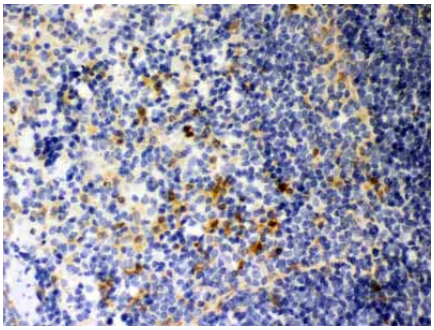
Background

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 â€“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.

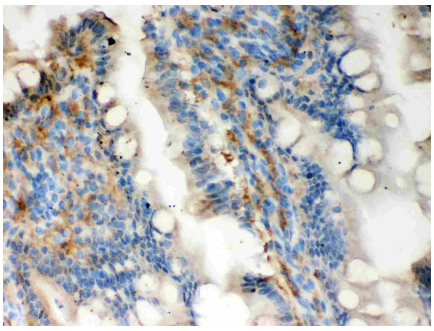
Images



Anti- Galectin3 Picoband antibody, ABO11970, Western blottingAll lanes: Anti Galectin3 (ABO11970) at 0.5ug/mlLane 1: Mouse Kidney Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugLane 3: Mouse Spleen Tissue Lysate at 50ugLane 4: Mouse Ovary Tissue Lysate at 50ugLane 5: HEPA Whole Cell Lysate at 40ugLane 6: ANA-1 Whole Cell Lysate at 40ugLane 7: NIH3T3 Whole Cell Lysate at 40ugredicted bind size: 26KDObserved bind size: 26KD



Anti- Galectin3 Picoband antibody, ABO11970, IHC(P)IHC(P): Mouse Spleen Tissue



Anti- Galectin3 Picoband antibody, ABO11970, IHC(P)IHC(P): Rat Intestine Tissue