

**Galectin-3 Monoclonal Antibody(8D7)**

<b>Catalog No :</b>	YM3532
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Galectin-3
<b>Gene Name :</b>	LGALS3
<b>Protein Name :</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)
<b>Human Gene Id :</b>	3958
<b>Human Swiss Prot No :</b>	P17931
<b>Mouse Swiss Prot No :</b>	P16110
<b>Immunogen :</b>	Protein
<b>Specificity :</b>	Galectin-3 protein detects endogenous levels of Galectin-3
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:2000-5000, IHC 1:100-200. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	26kD

**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. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2014],

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**Function :**

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.,online information:Galectin-3,similarity:Contains 1 galectin domain.,subcellular location:Cytoplasmic in adenomas and carcinomas. May be secreted by a non-classical secretory pathway and associate with the cell surface.,subunit:Probably forms homo- or heterodimers. Interacts with DMBT1 (By similarity). Forms a complex with the ITGA3, ITGB1 and CSPG4. Interacts with LGALS3BP, LYPD3, CYHR1 and UACA.,tissue specificity:A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages.,

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**Subcellular Location :**

Cytoplasm . Nucleus. Secreted . 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). .

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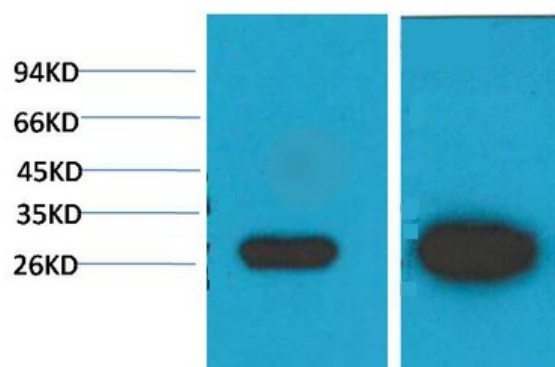
**Expression :**

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

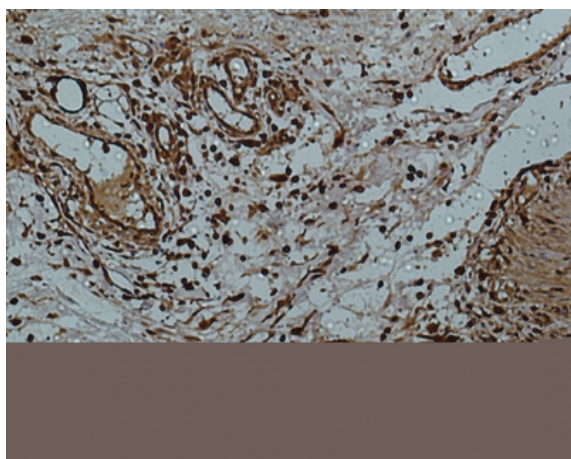
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## Products Images

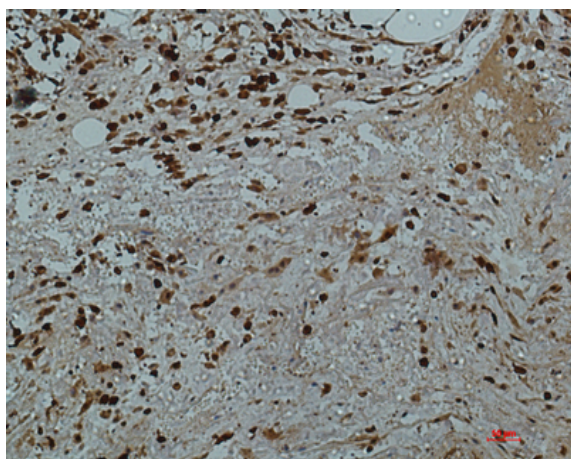
3T3



Western blot analysis of 1)MCF7, 2) 3T3 with Galectin-3 Mouse mAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded human-colon using antibody diluted at 1:50.



Immunohistochemical analysis of paraffin-embedded human-colon2 using antibody diluted at 1:50.