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KD-Validated Anti-Galectin 3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1482

Specification

KD-Validated Anti-Galectin 3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P17931
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 26 kD a , observed, 26 kDa KDa**
Gene Name	**LGALS3**
Aliases	**LGALS3; Galectin 3; GALIG; Advanced Glycation End-Product Receptor 3; Lectin, Galactoside-Binding, Soluble, 3; Carbohydrate-Binding Protein 35; Galactose-Specific Lectin 3; Laminin-Binding Protein 3; IgE-Binding Protein 3; 35 KDa Lectin; Lectin L-29; Galectin-3; LGALS2; MAC-2; GALBP; MAC2; Epididymis Secretory Sperm Binding Protein 3; Galactoside-Binding Protein; MAC-2 Antigen; Mac-2 Antigen; CBP 35; CBP35; Gal-3; GAL3; L-31; L31**
Immunogen	**A synthesized peptide derived from human Galectin 3**

KD-Validated Anti-Galectin 3 Rabbit Monoclonal Antibody - 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 (HGNC:6563), MAC2

KD-Validated Anti-Galectin 3 Rabbit Monoclonal Antibody - 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).

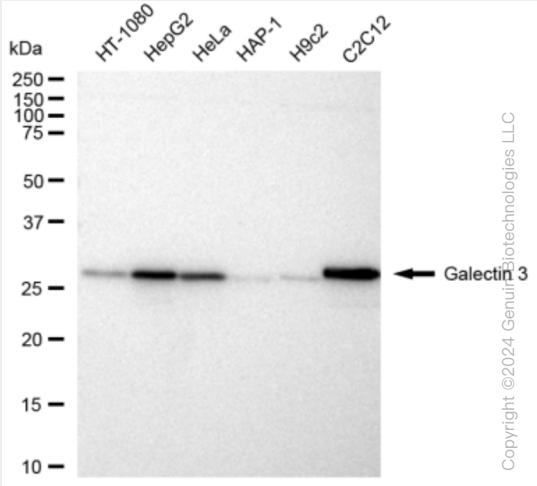
Tissue Location
A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.

KD-Validated Anti-Galectin 3 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-Galectin 3 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Galectin 3 antibody (Cat#AGI1482). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Galectin 3 antibody (Cat#AGI1482, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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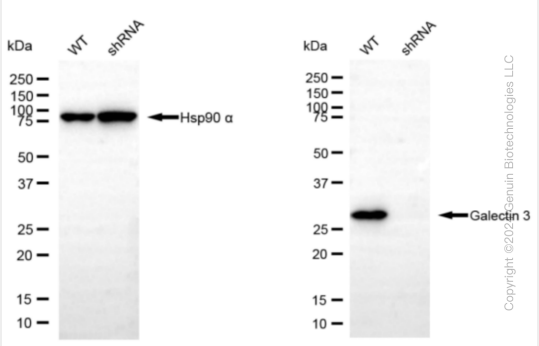
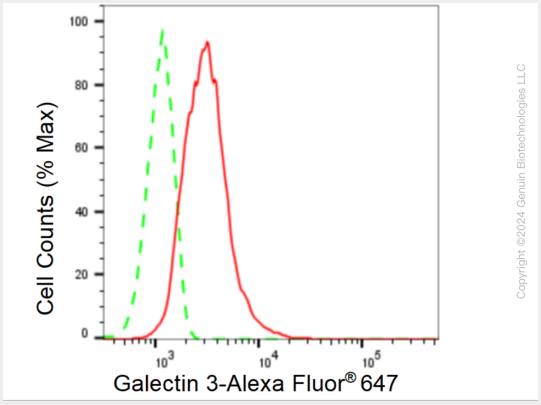
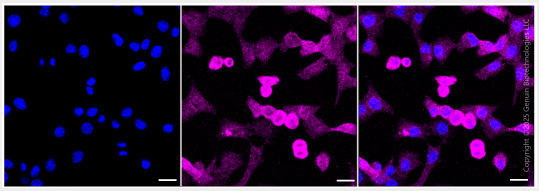


Western blotting analysis using anti-Galectin 3 antibody (Cat#AGI1482). Galectin 3 expression in wild type (WT) and Galectin 3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Galectin 3 antibody (Cat#AGI1482, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Galectin 3 expression in C2C12 cells using Galectin 3 antibody (AGI1482, 1:2,000). Green, isotype control; red, Galectin 3.



Immunocytochemical staining of HepG2 cells with anti-Galectin 3 antibody (Cat#AGI1482, 1:1,000). Nuclei were stained blue with anti-DAPI; Galectin 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.