

## **Galectin-9 Polyclonal Antibody**

Catalog No: YT1841

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: Galectin-9

Gene Name: LGALS9

**Protein Name:** Galectin-9

O00182

O08573

Human Gene Id: 3965

**Human Swiss Prot** 

No:

Mouse Gene Id: 16859

**Mouse Swiss Prot** 

No:

Rat Gene ld: 25476

Rat Swiss Prot No: P97840

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

LEG9. AA range:51-100

**Specificity:** Galectin-9 Polyclonal Antibody detects endogenous levels of Galectin-9 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



**Concentration:** 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) Storage Stability:

40kD Observed Band:

**Background:** The galectins are a family of beta-galactoside-binding proteins implicated in

> modulating cell-cell and cell-matrix interactions. The protein encoded by this gene is an S-type lectin. It is overexpressed in Hodgkin's disease tissue and might participate in the interaction between the H&RS cells with their surrounding cells and might thus play a role in the pathogenesis of this disease and/or its associated immunodeficiency. Multiple alternatively spliced transcript variants

have been found for this gene. [provided by RefSeq, Jul 2008],

alternative products: Additional isoforms seem to exist, domain: Contains two **Function:** 

> homologous but distinct carbohydrate-binding domains.,function:Binds galactosides. Has high affinity for the Forssman pentasaccharide. May play a role in thymocyte-epithelial interactions relevant to the biology of the thymus. Inhibits

> cell proliferation. The isoform Short acts as an eosinophil chemoattractant. Is a ligand for HAVCR2/TIM3. Induces T-helper type 1 lymphocyte (Th1) death., online

information: Galectin-9, similarity: Contains 2 galectin domains., subcellular

location: May also be secreted by a non-classical secretory pathway., subunit: Monomer., tissue specificity: Peripheral blood leukocytes and

lymphatic tissues. Overexpressed in Hodgkin's disease tissue.,

Subcellular

Cytoplasm . Nucleus . Secreted . May also be secreted by a non-classical Location: secretory pathway (By similarity). Secreted by mesenchymal stromal cells upon IFNG stimulation (PubMed:23817958). .; [Isoform 2]: Secreted .; [Isoform 3]:

Secreted.

**Expression:** Peripheral blood leukocytes and lymphatic tissues. Expressed in lung, liver,

breast and kidney with higher levels in tumor endothelial cells than normal endothelium (at protein level) (PubMed:24333696). Expressed in trophoblast cells in decidua and placenta in pregnancy (at protein level) (PubMed:23242525, PubMed:25578313). Isoform 2 is the most abundant isoform expressed in endothelial cells (PubMed:24333696). Upon endothelial cell activation isoform 2 expression decreases while expression of isoform 3 and isoform 5 increases

(PubMed:24333696). Isoform 4 decreases in pathological pregnancy

(PubMed:23242525).

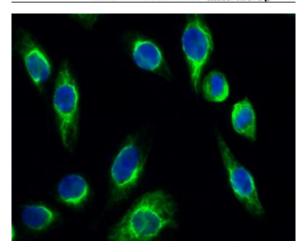
## **Products Images**

Galectin-9

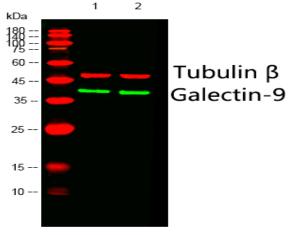
β-actin

Control miR-control miR-455-5p

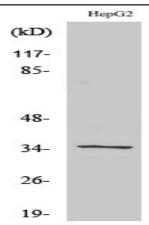
Yang, Qianqian, et al. "miR-455-5p functions as a potential oncogene by targeting galectin-9 in colon cancer." Oncology letters 13.3 (2017): 1958-1964.



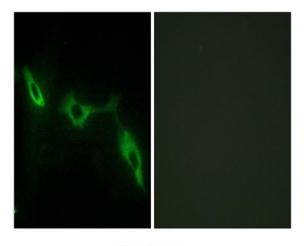
Immunofluorescence analysis of Hela cell. 1, Galectin-9 Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.



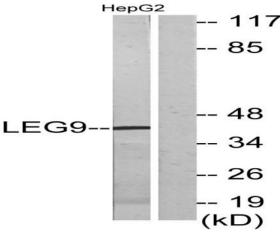
Western blot analysis of lysates from 1) VEC, 2) HepG2 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody(Immunoway:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Tubulin  $\beta$  Monoclonal Antibody(5G3) (Immunoway:YM3030) antibody was diluted at 1:5000 as loading control, 4° over night,Dylight 680 secondary antibody(Immunoway:RS23710)was diluted at 1:10000, 37° 1hour.



Western Blot analysis of HepG2 cells using Galectin-9 Polyclonal Antibody diluted at 1:1000

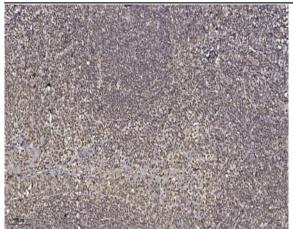


Immunofluorescence analysis of NIH/3T3 cells, using LEG9 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using LEG9 Antibody. The lane on the right is blocked with the synthesized peptide.





Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).