

Galectin-9 (PTR1201) mouse mAb

Catalog No :	YM4735
Reactivity :	Human;
Applications :	WB;IF;ELISA
Target :	Galectin-9
Gene Name :	LGALS9
Protein Name :	Galectin-9 (Gal-9) (Ecalectin) (Tumor antigen HOM-HD-21)
Human Gene Id :	3965
Human Swiss Prot No :	O00182
Mouse Gene Id :	16859
Mouse Swiss Prot No :	O08573
Immunogen :	Synthesized peptide derived from human Galectin-9 AA range: 1-100
Specificity :	This antibody detects endogenous levels of Galectin-9 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG
Dilution :	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	39kD

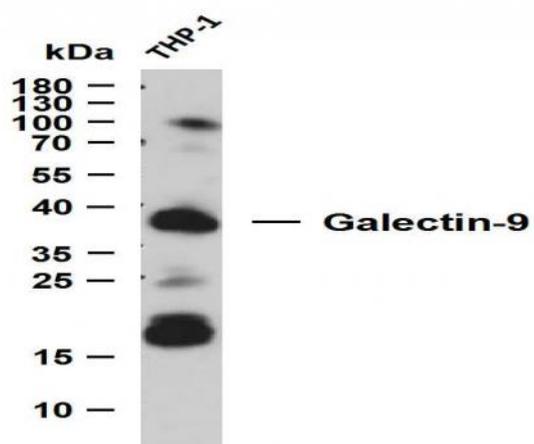
Observed Band : 37kD

Background : galectin 9(LGALS9) Homo sapiens 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],

Function : Binds galactosides . Has high affinity for the Forssman pentasaccharide . Ligand for HAVCR2/TIM3 . Binding to HAVCR2 induces T-helper type 1 lymphocyte (Th1) death . Also stimulates bactericidal activity in infected macrophages by causing macrophage activation and IL1B secretion which restricts intracellular bacterial growth (By similarity). Ligand for P4HB; the interaction retains P4HB at the cell surface of Th2 T-helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration . Ligand for CD44; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (By similarity). Promotes ability of mesenchymal stromal cells to suppress T-cell proliferation . Expands regulatory T-c

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



Whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-Galectin-9 (PTR1201) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: THP-1