

LGALS9 mouse monoclonal antibody

Catalog: MB4003

Host: Mouse

Reactivity: Human

BackGround:

Galectins are a family of β -galactose binding proteins that are characterized by an affinity for poly-N-acetyllactosamine-enriched glycoconjugates and a carbohydrate-binding site. Members of the galectin family have been implicated in a variety of biological functions, including cell adhesion, growth regulation, cytokine production, T-cell apoptosis, and immune responses.

Galectin-9 is induced by proinflammatory stimuli, including IFN- γ , TNF- α , and TLR ligands, and regulates various immune responses through interaction with its ligand TIM-3. Binding of galectin-9 to TIM-3 expressed by Th1 CD4 T cells resulted in T cell death. On the other hand, galectin-9 treatment of tumor-bearing mice increased the number of IFN- γ -producing TIM-3+ CD8 T cells and TIM-3+ dendritic cells. Transgenic overexpression of either TIM-3 or galectin-9 in mice led to an increase in cells with a myeloid-derived suppressor cell phenotype and inhibition of immune responses. CD44 is also proposed to be a receptor for galectin-9, and interaction of galectin-9 with CD44 expressed by induced regulatory T (iTreg) cells enhanced the stability of function of iTreg cells. In addition, galectin-9 was recently demonstrated to bind Dectin-1 expressed by pancreatic ductal adenocarcinoma-infiltrating macrophages, resulting in tolerogenic macrophage reprogramming and suppression of anti-tumor immunity. Increased galectin-9 expression has been observed in several cancer types, including lung, liver, breast, and kidney. Alternative splicing of the galectin-9 transcript leads to several isoforms.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 39 kDa

Swiss-Prot:

O00182

Purification&Purity:

The antibody was affinity-purified from mouse ascites fluids or tissue culture supernatant by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB 1:2000, IHC 1:150

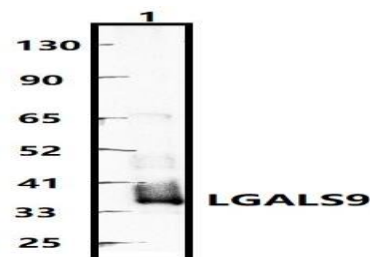
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Isotype:

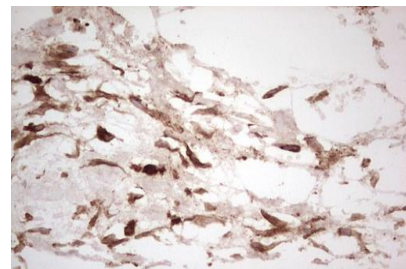
IgG2b

DATA:



Western blot (WB) analysis of LGALS9 mouse monoclonal antibody at 1:500 dilution.

Lane1:THP-1 whole cell lysate(30ug)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-LGALS9 mouse monoclonal antibody.

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: info@biogot.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151



PRODUCT DATA SHEET

Bioworld Technology, Inc.

(Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5,
120 °C for 3min,)

Note:

For research use only, not for use in diagnostic procedure.

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park,
MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046,
P. R. China.

Email: info@biogot.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151