bs-20700R **[Primary Antibody]**

Galectin 3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3958 **SWISS:** P17931

Target: Galectin 3

Immunogen: KLH conjugated synthetic peptide derived from human Galectin 3: 181-250/250.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

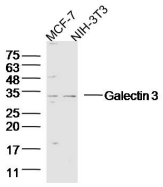
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse (predicted: Rat, Dog)

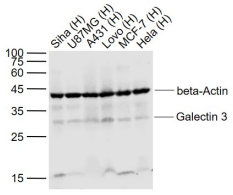
Predicted MW.: 29 kDa

Subcellular Location: Secreted ,Cell membrane ,Cytoplasm ,Nucleus

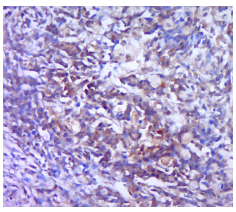
VALIDATION IMAGES



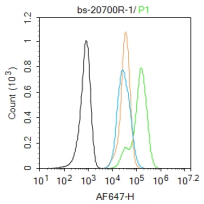
Sample: MCF-7 Cell (Human) Lysate at 40 ug NIH/3T3 Cell (Mouse) Lysate at 40 ug Primary: Anti-Galectin 3 (bs-20700R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29 kD Observed band size: 29 kD



Sample: Lane 1: Siha (Human) Cell Lysate at 30 ug Lane 2: U87MG (Human) Cell Lysate at 30 ug Lane 3: A431 (Human) Cell Lysate at 30 ug Lane 4: Lovo (Human) Cell Lysate at 30 ug Lane 5: MCF-7 (Human) Cell Lysate at 30 ug Lane 6: Hela (Human) Cell Lysate at 30 ug Primary: Anti-Galectin 3 (bs-20700R) at 1/1000 dilution Anti-beta-Actin (bs-0061R) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 26 kD Observed band size: 28 kD



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Galectin 3) Polyclonal Antibody, Unconjugated (bs-20700R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control:A431. Primary Antibody (green

line): Rabbit Anti-Galectin 3 antibody (bs-20700R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=7.793]** Wang H et al. The effect of exposure time and concentration of airborne PM2. 5 on lung injury in mice: A transcriptome analysis. Redox Biol. 2019 Jul 2;26:101264. IHC ;Mouse. 31279222
- **[IF=7.793]** Gao J et al. Metformin protects against PM2. 5-induced lung injury and cardiac dysfunction independent of AMP-activated protein kinase α2. Redox Biol. 2019 Oct 19;28:101345. IHC ;Mouse. 31669973
- **[IF=7.129]** Yongcan Wu. et al. Probiotics ameliorates pulmonary inflammation via modulating gut microbiota and rectifying Th17/Treg imbalance in a rat model of PM2.5 induced lung injury. ECOTOX ENVIRON SAFE. 2022 Oct;244:114060 IHC ;Rat. 36115151
- **[IF=6.02]** Wang H et al. AMPKα2 deficiency exacerbates long-term PM2.5 exposure-induced lung injury and cardiac dysfunction.Free Radic Biol Med. 2018 Jun;121:202-214. Other ;Mouse,Human&Rat. 29753072
- **[IF=5.572]** Baoxin Qiao. et al. Curcumin attenuates AFB1-induced duck liver injury by inhibiting oxidative stress and lysosomal damage. FOOD CHEM TOXICOL. 2022 Dec;:113593 IF ;Duck. 36596445