

For Research Use Only

# Galectin-4 Monoclonal antibody

Catalog Number: 66686-1-Ig



## Basic Information

<b>Catalog Number:</b> 66686-1-Ig	<b>GenBank Accession Number:</b> BC034750	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3960	<b>CloneNo.:</b> 3C2G3
<b>Source:</b> Mouse	<b>Full Name:</b> Lectin, galactoside-binding, soluble, 4	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:2000-1:5000 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 323 aa, 36 kDa	
<b>Immunogen Catalog Number:</b> AG4049	<b>Observed MW:</b> 36 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Species Specificity:**  
Human

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB :** HT-29 cells, human ileum tissue

**IHC :** human colon tissue, human colon cancer tissue

**IF :** human colon cancer tissue,

## Background Information

Galectins are a family of animal lectins defined by shared characteristic amino-acid sequences and affinity for  $\beta$ -galactose-containing oligosaccharides (PMID: 8063692). Galectin-4 contains two arbohydrate recognition domains (CRDs) and is expressed in the epithelium of oral mucosa, esophagus, and intestinal and colonic mucosa (PMID: 15546874; 15115909). Aberrant expression of galectin-4 has been reported in several cancers.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

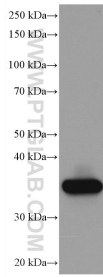
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech  
Group brand and is not available to purchase from any  
other manufacturer.**

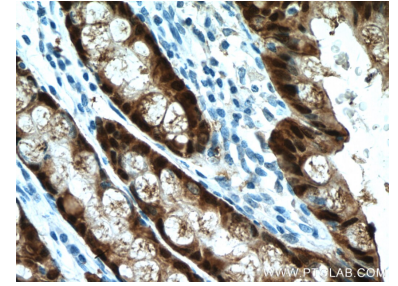
## Selected Validation Data



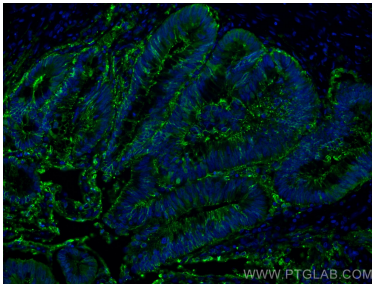
HT-29 cells were subjected to SDS PAGE followed by western blot with 66686-1-Ig (LGALS4, GAL4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



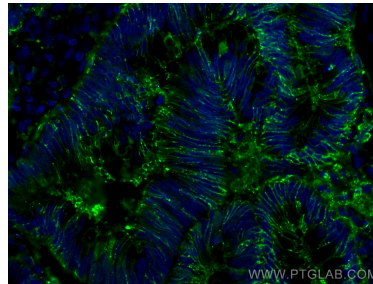
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66686-1-Ig (Galectin-4 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



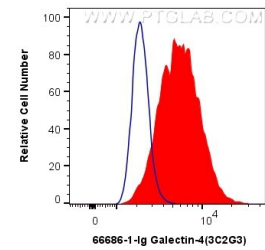
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66686-1-Ig (Galectin-4 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using Galectin-4 antibody (66686-1-Ig, Clone: 3C2G3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using Galectin-4 antibody (66686-1-Ig, Clone: 3C2G3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



$1 \times 10^6$  HT-29 cells were intracellularly stained with 0.4 ug Anti-Human Galectin-4 (66686-1-Ig, Clone:3C2G3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).