

For Research Use Only

# Galectin-3 Polyclonal antibody

Catalog Number: 14979-1-AP

Featured Product

28 Publications



## Basic Information

**Catalog Number:**

14979-1-AP

**Size:**

150ul, Concentration: 750 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6891

**GenBank Accession Number:**

BC001120

**GeneID (NCBI):**

3958

**UNIPROT ID:**

P17931

**Full Name:**

lectin, galactoside-binding, soluble, 3

**Calculated MW:**

26 kDa

**Observed MW:**

31 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IF, FC, IHC, ELISA

**Cited Applications:**

WB, IP, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse, pig

**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:** HeLa cells, human heart tissue, rat colon tissue, MCF-7 cells, NIH/3T3 cells

**IP:** MCF-7 cells,

**IHC:** human thyroid cancer tissue,

**IF:** HeLa cells,

## 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-3, a member of the  $\beta$ -galactoside-binding proteins, contains one carbohydrate recognition domain (CRD) and a proline- and glycine-rich N-terminal domain through which is able to form oligomers (PMID: 14758078). Galectin-3 is widely expressed in many normal tissues and a variety of tumors. It is found intracellularly in nucleus and cytoplasm or secreted outside of cell, being present on the cell surface or in the extracellular space (PMID: 16478649). Galectin-3 is involved in various biological processes including cell growth, adhesion, differentiation, apoptosis, angiogenesis, immune response, neoplastic transformation and metastasis (PMID: 16478649; 14758078).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qiong-Ya Zhao	32786176	Zool Res	IHC
Guillermo Herrador-Cañete	35949950	Mol Ther Oncolytics	WB
Jay Xiaojun Tan	36071159	Nature	IF

## 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

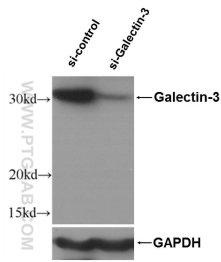
For technical support and original validation data for this product please contact:

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

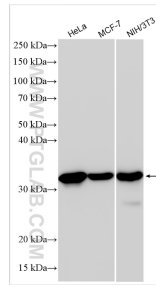
E: proteintech@ptglab.com  
W: ptglab.com

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

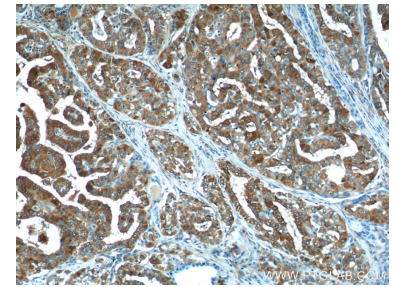
## Selected Validation Data



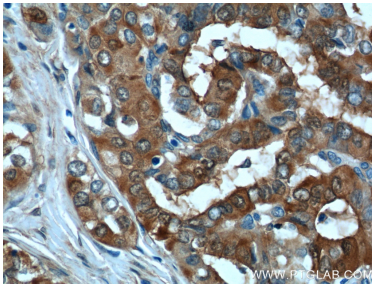
WB result of Galectin 3 antibody (14979-1-AP, 1:1000) with si-Control and si-Galectin 3 transfected HeLa cells.



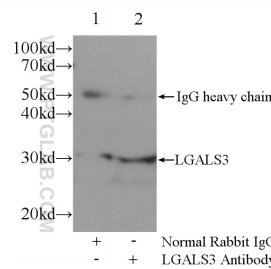
Various lysates were subjected to SDS PAGE followed by western blot with 14979-1-AP (Galectin-3 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



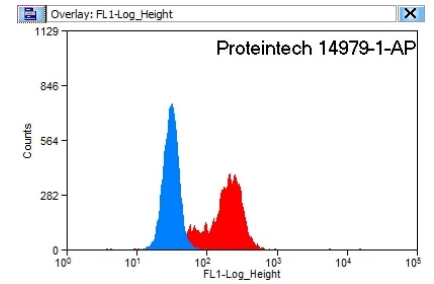
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 14979-1-AP (Galectin-3 antibody at dilution of 1:200 (under 10x lens).



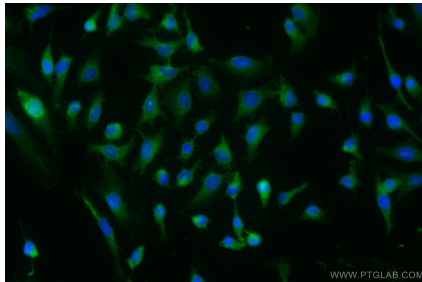
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 14979-1-AP (Galectin-3 antibody at dilution of 1:200 (under 40x lens).



IP result of anti-Galectin-3 (IP:14979-1-AP, 3ug; Detection:14979-1-AP 1:500) with MCF-7 cells lysate 1600ug.



1X10<sup>6</sup> HeLa cells were stained with 0.2ug Galectin-3 antibody (14979-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Galectin-3 antibody (14979-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).