

For Research Use Only

# Galectin-3 Recombinant antibody

Catalog Number: 82024-1-RR

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 82024-1-RR	<b>GenBank Accession Number:</b> BC001120	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3958	<b>CloneNo.:</b> 4M10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P17931	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> lectin, galactoside-binding, soluble, 3	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Immunogen Catalog Number:</b> AG6891	<b>Calculated MW:</b> 26 kDa	IHC 1:250-1:1000
	<b>Observed MW:</b> 31 kDa	IF/ICC 1:250-1:1000

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB :</b> HeLa cells, MCF-7 cells, A549 cells, A431 cells, NIH/3T3 cells
<b>Species Specificity:</b> human, mouse	<b>IP :</b> MCF-7 cells,
<b>Cited Species:</b> human, mouse	<b>IHC :</b> human thyroid cancer tissue, human colon tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	
	<b>IF/ICC :</b> 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
Ziyun Huang	38769548	Parasit Vectors	WB,IHC,IF
Miwa Tanaka	37212282	JCI Insight	IHC

## Storage

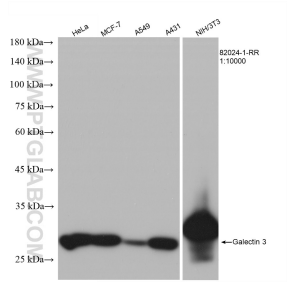
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

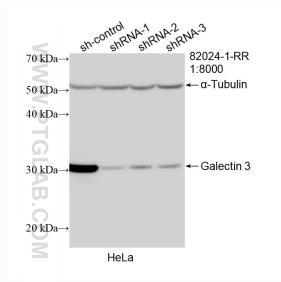
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

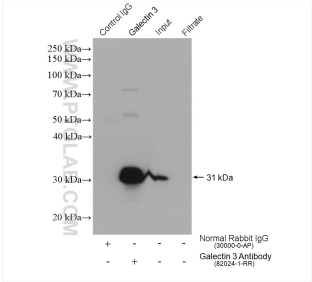
Selected Validation Data



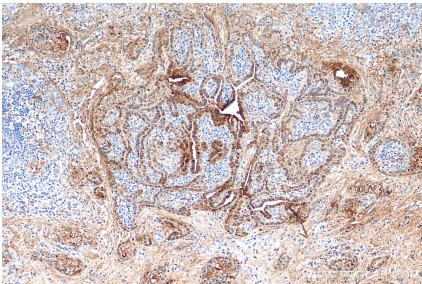
Various lysates were subjected to SDS PAGE followed by western blot with 82024-1-RR (Galectin 3 antibody) at dilution of 1:9900 incubated at room temperature for 1.5 hours.



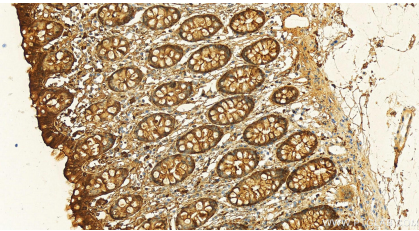
WB result of Galectin 3 antibody (82024-1-RR; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Galectin 3 transfected HeLa cells.



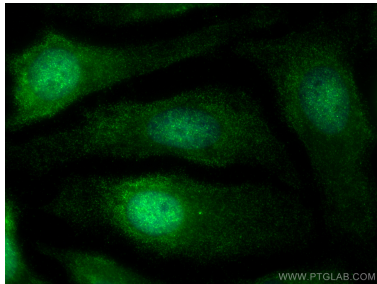
IP result of anti-Galectin 3 (IP:82024-1-RR, 4ug; Detection:82024-1-RR 1:10000) with MCF-7 cells lysate 1880 ug.



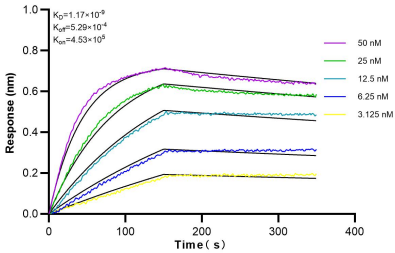
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 82024-1-RR (Galectin 3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 82024-1-RR (Galectin 3 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Galectin 3 antibody (82024-1-RR, Clone: 4M10) at dilution of 1:500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Biolayer interferometry (BLI) kinetic assays of 82024-1-RR against Human Galectin 3 were performed. The affinity constant is 1.17 nM.