

For Research Use Only

# Galectin-3 Recombinant antibody, PBS Only

Catalog Number:82024-1-PBS

Featured Product



## Basic Information

Catalog Number: 82024-1-PBS	GenBank Accession Number: BC001120	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 3958	CloneNo.: 4M10
Source: Rabbit	UNIPROT ID: P17931	
Isotype: IgG	Full Name: lectin, galactoside-binding, soluble, 3	
Immunogen Catalog Number: AG6891	Calculated MW: 26 kDa	
	Observed MW: 31 kDa	

## Applications

Tested Applications:  
WB, IHC, IF/ICC, IP, Indirect ELISA

Species Specificity:  
human, mouse

## 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).

## Storage

Storage:  
Store at -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:  
PBS Only

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

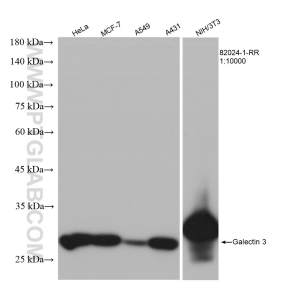
T: 4006900926

E: Proteintech-CN@ptglab.com

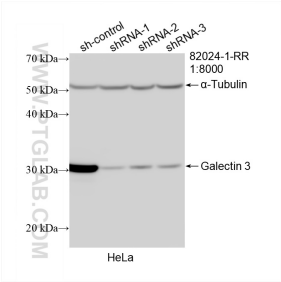
W: ptgcn.com

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

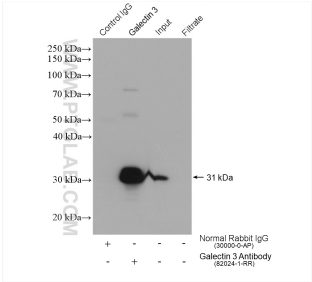
Selected Validation Data



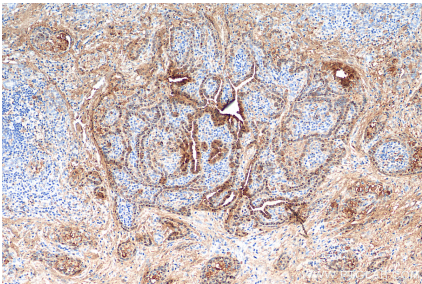
Various lysates were subjected to SDS PAGE followed by western blot with 82024-1-RR (Galectin 3 antibody) at dilution of 1:9900 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82024-1-PBS in a different storage buffer formulation.



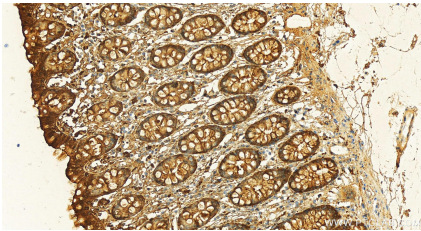
WB result of Galectin 3 antibody (82024-1-RR; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Galectin 3 transfected HeLa cells. This data was developed using the same antibody clone with 82024-1-PBS in a different storage buffer formulation.



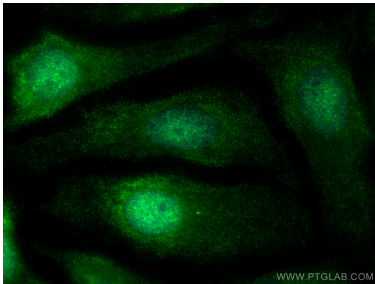
IP result of anti-Galectin 3 (IP:82024-1-RR, 4ug; Detection:82024-1-RR 1:10000) with MCF-7 cells lysate 1880 ug. This data was developed using the same antibody clone with 82024-1-PBS in a different storage buffer formulation.



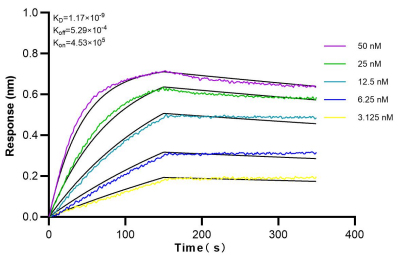
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 82024-1-RR (Galectin 3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82024-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82024-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82024-1-PBS in a different storage buffer formulation.



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