

For Research Use Only

# Galectin 3 Polyclonal antibody

Catalog Number: 30450-1-AP



## Basic Information

<b>Catalog Number:</b> 30450-1-AP	<b>GenBank Accession Number:</b> BC001120	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul	<b>GeneID (NCBI):</b> 3958	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> lectin, galactoside-binding, soluble, 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 26 kDa	
	<b>Observed MW:</b> 29-31 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, Mouse, Rat

**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 : A431 cells, HeLa cells, MCF-7 cells, NIH/3T3 cells, mouse colon tissue, rat colon tissue

IHC : human thyroid cancer tissue, mouse colon 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-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  $-20^{\circ}\text{C}$ . Stable for one year after shipment.

### Storage Buffer:

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

Aliquoting is unnecessary for  $-20^{\circ}\text{C}$  storage

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

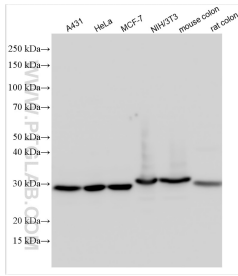
For technical support and original validation data for this product please contact:

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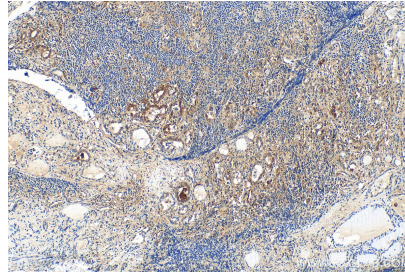
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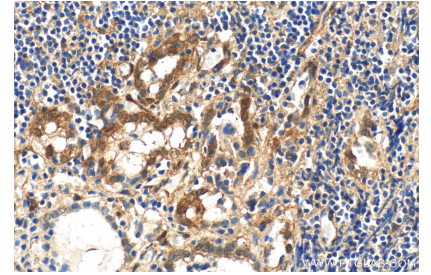
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30450-1-AP (Galectin 3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 30450-1-AP (Galectin 3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 30450-1-AP (Galectin 3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).