For Research Use Only

Galectin-3 Polyclonal ANTIBODY

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Antibodies | ELISA kits | Proteins
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Catalog Number:14979-1-AP Featured Product 9 Publications

Basic Information

Catalog Number:
14979-1-AP

Size:
150UL , Concentration: 267 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6891

GenBank Accession Number:
BC001120

GeneID (NCBI):
3958

Full Name:
lectin, galactoside-binding, soluble, 3

Calculated MW:
26 kDa

Observed MW:
31 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:20-1:200
IF 1:10-1:100

Applications

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

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

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

IP : MCF-7 cells,

IHC : human thyroid cancer tissue, human colon cancer tissue

IF : MCF-7 cells,

Background Information

Galectins are a family of animal lectins defined by shared characteristic amino-acid sequences and affinity for β-galactose-containing oligosac-charides (PMID: 8063692). Galectin-3, a 31-kDa member of the β-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
Zilong Li	31850346	Front Cell Dev Biol	WB
Jingni He	28431936	J Am Soc Hypertens	WB,IHC,IF
Hideki Nakamura	31233774	Virus Res	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

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
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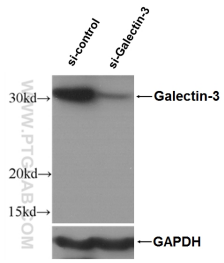
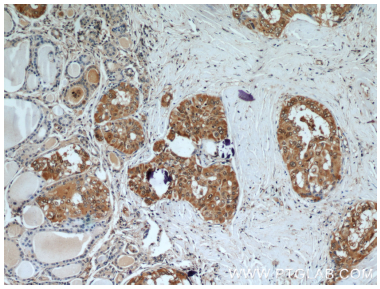
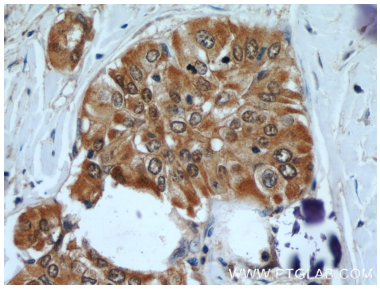
Selected Validation Data



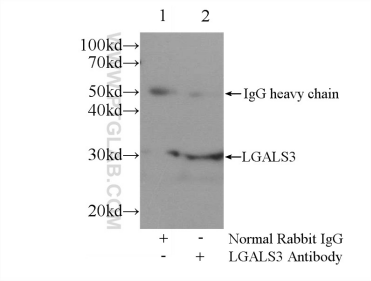
WB result of Galectin 3 antibody (14979-1-AP, 1:1000) with si-Control and si-Galectin 3 transfected HeLa cells.



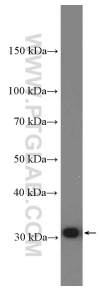
Immunohistochemical analysis of paraffin-embedded human thyroid cancer using 14979-1-AP (Galectin-3 antibody) at dilution of 1:50 (under 10x lens).



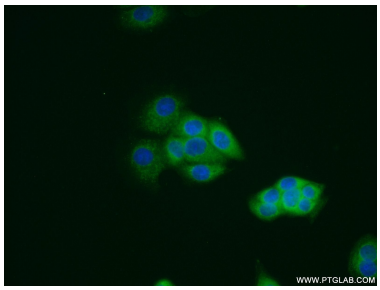
Immunohistochemical analysis of paraffin-embedded human thyroid cancer using 14979-1-AP (Galectin-3 antibody) at dilution of 1:50 (under 40x lens).



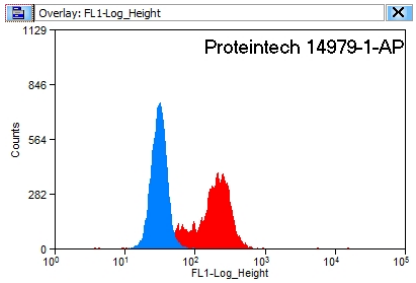
IP Result of anti-Galectin-3 (IP:14979-1-AP, 3ug; Detection:14979-1-AP 1:500) with MCF-7 cells lysate 1600ug.



MCF-7 cells were subjected to SDS PAGE followed by western blot with 14979-1-AP (Galectin-3 antibody at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of MCF-7 cells using 14979-1-AP (Galectin-3 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 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.