For Research Use Only

Galectin-3 Polyclonal antibody

Catalog Number:14979-1-AP Featured Product 41 Publications

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Basic Information

Catalog Number:
14979-1-AP

Concentration:
750 ug/ml

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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, 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, human colon tissue

IF/ICC : HeLa 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 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

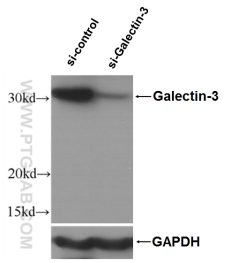
Author	Pubmed ID	Journal	Application
Qiong-Ya Zhao	32786176	Zool Res	IHC
Guillermo Herrador-Cañete	35949950	Mol Ther Oncolytics	WB
Jay Xiaojun Tan	36071159	Nature	IF

Storage

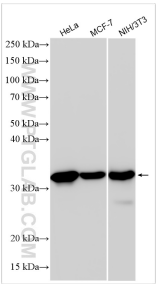
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

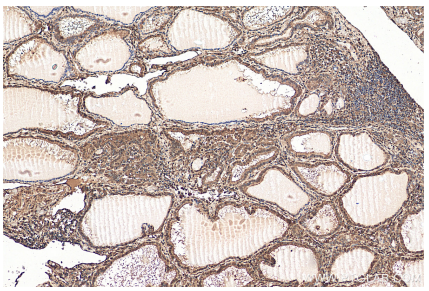
Selected Validation Data



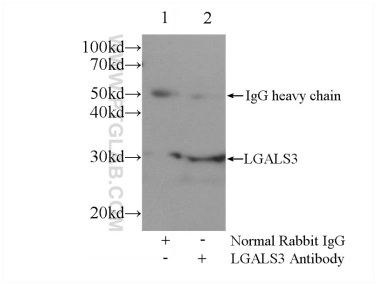
WB result of Galectin 3 antibody (14979-1-AP, 1:1000) with si-Control and si-Galectin 3 transfected HeLa cells.



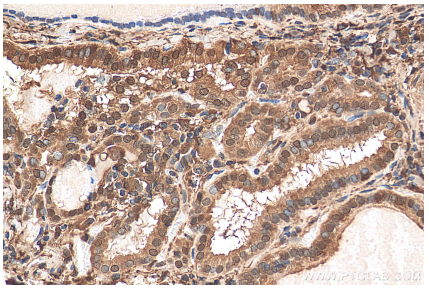
Various lysates were subjected to SDS PAGE followed by western blot with 14979-1-AP (Galectin-3 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



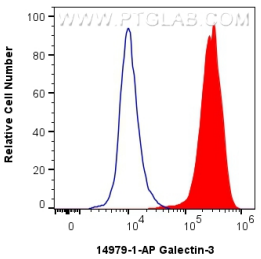
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 14979-1-AP (Galectin-3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



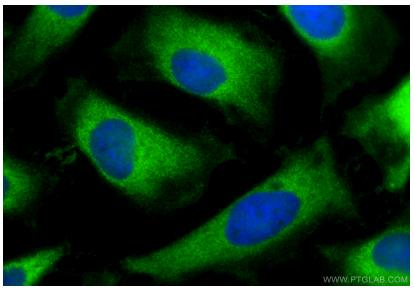
IP result of anti-Galectin-3 (IP:14979-1-AP, 3ug; Detection:14979-1-AP 1:500) with MCF-7 cells lysate 1600ug.



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). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HeLa cells were intracellularly stained with 0.4 ug Galectin-3 Polyclonal antibody (14979-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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