

For Research Use Only

Galectin-3 Monoclonal antibody

Catalog Number: 60207-1-Ig

Featured Product

46 Publications



Basic Information

Catalog Number: 60207-1-Ig	GenBank Accession Number: BC001120	Purification Method: Protein A purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3958	CloneNo.: 1C1B2
Source: Mouse	UNIPROT ID: P17931	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:200-1:800 IF/ICC 1:400-1:1600
Isotype: IgG2b	Full Name: lectin, galactoside-binding, soluble, 3	
Immunogen Catalog Number: AG6753	Calculated MW: 26 kDa	
	Observed MW: 31 kDa	

Applications

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

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse

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: A431 cells, HSC-T6 cells, HeLa cells, A549 cells, MCF-7 cells, T-47D cells, HepG2 cells, Caco-2 cells, human placenta tissue

IHC: human thyroid cancer tissue, human colon tissue, human ovary tumor tissue

IF-P: mouse kidney tissue, human thyroid cancer tissue

IF/ICC: HeLa cells, mouse kidney tissue, MCF-7 cells, human thyroid cancer tissue

Background Information

Galectins are a family of animal lectins defined by shared characteristic amino-acid sequences and affinity for β -galactose-containing oligosaccharides (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
Vinay V Eapen	34585663	Elife	WB,IF
Dandan Zong	36332381	Sleep Med	WB
Ying Li	33124742	FASEB J	WB

Storage

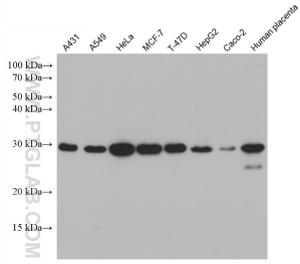
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

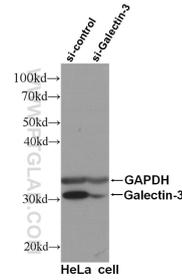
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

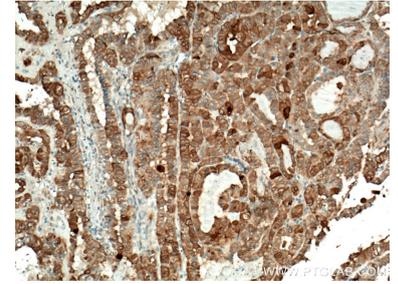
Selected Validation Data



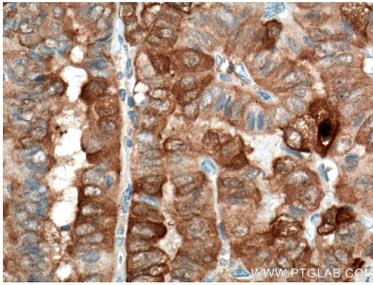
Various lysates were subjected to SDS PAGE followed by western blot with 60207-1-Ig (Galectin-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



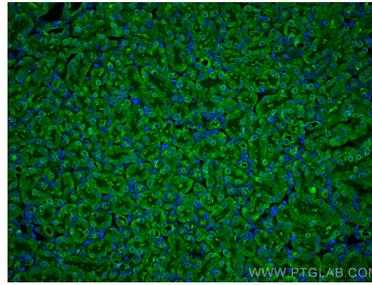
WB result of Galectin-3 specific antibody (60207-1-Ig, 1:1000) with si-control and si-Galectin-3 transfected HeLa cells.



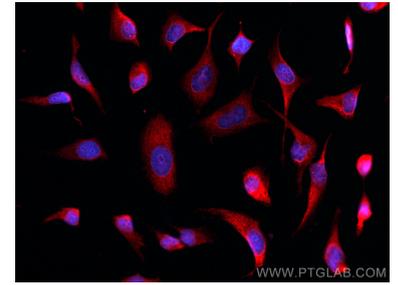
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 60207-1-Ig (Galectin-3 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



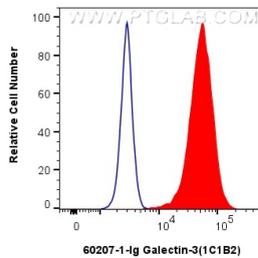
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 60207-1-Ig (Galectin-3 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using Galectin-3 antibody (60207-1-Ig, Clone: 1C1B2) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Galectin-3 antibody (60207-1-Ig, Clone: 1C1B2) at dilution of 1:800 and CoraLite@594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ HeLa cells were intracellularly stained with 0.8 ug Anti-Human Galectin-3 (60207-1-Ig, Clone:1C1B2) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.8 ug Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60207-1-Ig (Galectin-3 antibody) at dilution of 1:15000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).