

Galectin-3 Monoclonal antibody

Catalog Number: 60207-1-Ig

Featured Product

33 Publications

Basic Information

Catalog Number:

60207-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG6753

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:

Protein A purification

CloneNo.:

1C1B2

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF 1:400-1:1600

Applications

Tested Applications:

FC, IF/ICC, IF-P, IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

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 : 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

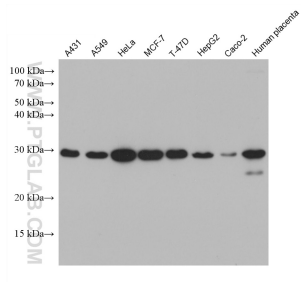
For technical support and original validation data for this product please contact:

T: 4006900926

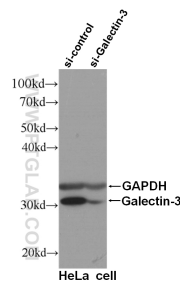
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

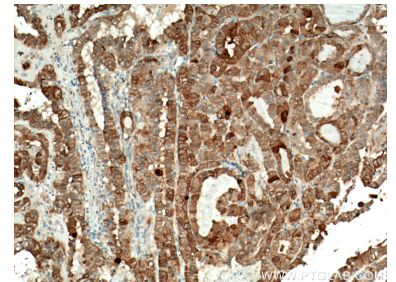
Selected Validation Data



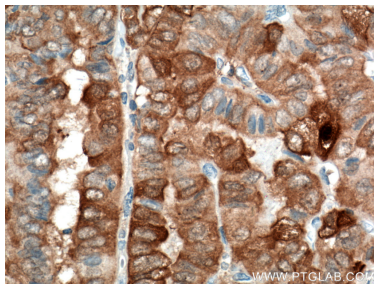
Various lysates were subjected to SDS PAGE followed by western blot with 60207-1-Ig (Galectin-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



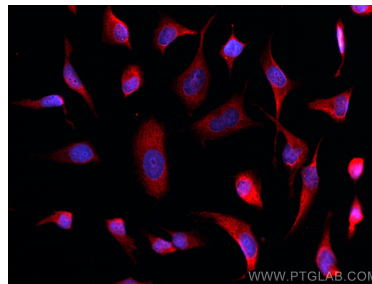
WB result of Galectin-3 specific antibody (60207-1-Ig, 1:1000) with si-control and si-Galectin-3 transfected HeLa cells.



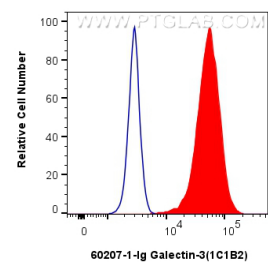
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 60207-1-Ig (Galectin-3 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



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 (-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).