

For Research Use Only

OGT Monoclonal antibody

Catalog Number: 66823-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number: 66823-1-Ig	GenBank Accession Number: BC014434	Purification Method: Protein A purification
Size: 150ul, Concentration: 1400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8473	CloneNo.: 2B2A6
Source: Mouse	Full Name: O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000 IF 1:200-1:800
Isotype: IgG2a	Calculated MW: 1046 aa, 117 kDa	
Immunogen Catalog Number: AG28402	Observed MW: 110 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

Human, mouse, rat, pig

Cited Species:

human, 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: HeLa cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells, pig brain tissue, rat brain tissue, mouse brain tissue

IHC: human lung cancer tissue, human colon cancer tissue

IF: HepG2 cells,

Background Information

O-linked N-acetylglucosamine transferase (OGT) catalyzes the attachment of N-acetylglucosamine (GlcNAc) monosaccharides to the hydroxyl group of serine or threonine residues of numerous nuclear and cytoplasmic proteins and may play important roles in a large number of diverse intracellular processes ranging from translational control, transcription, transcriptional repression, INS resistance and regulation of the cell cycle. It exists as a heterotrimeric complex with two 110 kDa and one 70 kDa subunits. Recent studies have shown that O-GlcNAcylation plays essential roles in cancer formation and progression. O-GlcNAcylation as well as OGT expression was found to be significantly elevated in the cancer tissues.

Notable Publications

Author	Pubmed ID	Journal	Application
Bo Xu	35690146	J Biol Chem	WB
Yajie Liu	37595040	Sci Adv	WB
Jianing Tang	37559097	Cell Commun Signal	WB,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

*** 20ul sizes contain 0.1% BSA

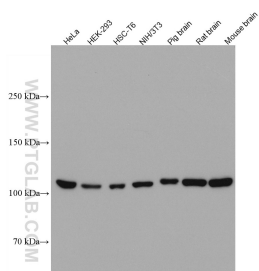
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

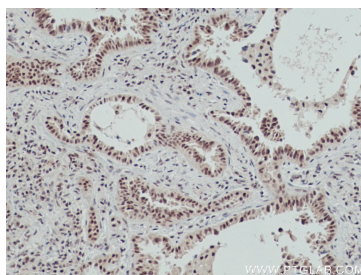
E: proteintech@ptglab.com
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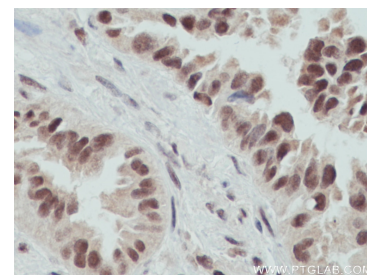
Selected Validation Data



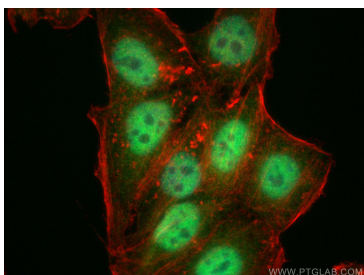
Various lysates were subjected to SDS PAGE followed by western blot with 66823-1-Ig (OGT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66823-1-Ig (OGT antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66823-1-Ig (OGT antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using OGT antibody (66823-1-Ig, Clone: 2B2A6) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).