

For Research Use Only

OGT Monoclonal antibody

Catalog Number: 66823-1-Ig

Featured Product

7 Publications



Basic Information

Catalog Number:

66823-1-Ig

Size:

150ul, Concentration: 1400 ug/ml by 8473
Nanodrop and 1000 ug/ml by Bradford
method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28402

GenBank Accession Number:

BC014434

GeneID (NCBI):

8473

UNIPROT ID:

O15294

Full Name:

O-linked N-acetylglucosamine
(GlcNAc) transferase (UDP-N-
acetylglucosamine:polypeptide-N-
acetylglucosaminyl transferase)

Calculated MW:

1046 aa, 117 kDa

Observed MW:

110 kDa

Purification Method:

Protein A purification

CloneNo.:

2B2A6

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:250-1:1000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

Human, mouse, rat, pig

Cited Species:

human, mouse

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/ICC: HepG2 cells,

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

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
S I Panpan	39496915	Mol Cell Biochem	WB, IHC
Stephen Henry Holland	39456185	Biomolecules	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

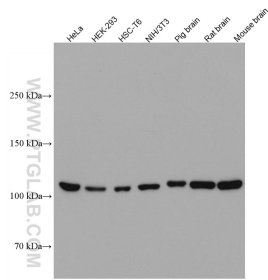
For technical support and original validation data for this product please contact:

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

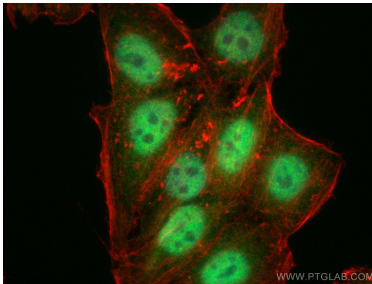
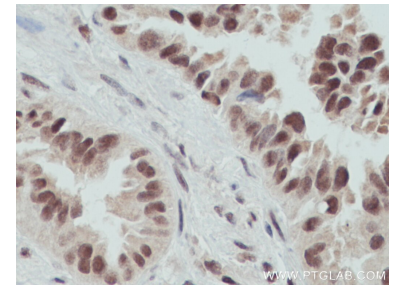
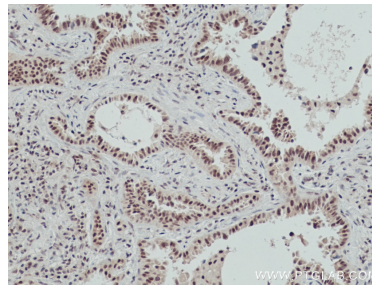
E: proteintech@ptglab.com
W: ptglab.com

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Group brand and is not available to purchase from any
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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.



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 Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).