For Research Use Only

OGT Monoclonal antibody

Catalog Number:66823-1-Ig Featured Product 4 Publications

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Basic Information

Catalog Number:
66823-1-Ig

Size:
1400 μg/ml

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 1:200-1:800

Applications

Tested Applications:
IF/ICC, 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

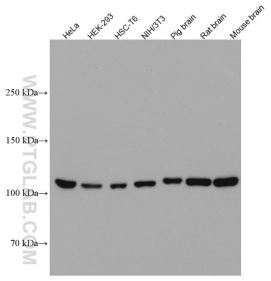
Author	Pubmed ID	Journal	Application
Bo Xu	35690146	J Biol Chem	WB
Yajie Liu	37595040	Sci Adv	WB
Jianing Tang	37559097	Cell Commun Signal	WB,IF

Storage

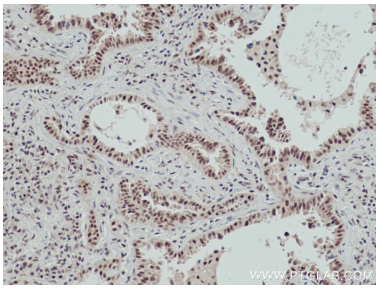
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

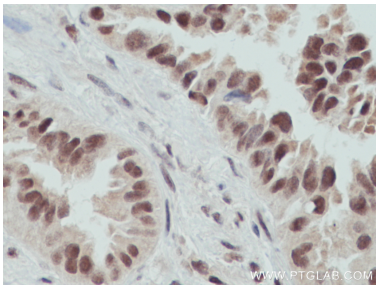
Selected Validation Data



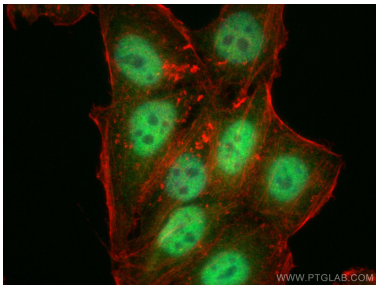
Various lysates were subjected to SDS PAGE followed by western blot with 66823-1-Ig (OGT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).