

For Research Use Only

OGT Recombinant antibody

Catalog Number: 83113-1-RR



Basic Information

Catalog Number:

83113-1-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2160

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.:

230385D11

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:125-1:500

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HepG2 cells, HeLa cells, HEK-293T cells, Jurkat cells, U-937 cells, mouse brain tissue, rat brain tissue

IF/ICC : HeLa 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.

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:

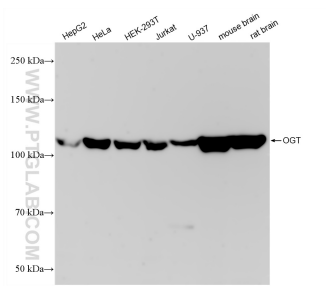
T: 4006900926

E: Proteintech-CN@ptglab.com

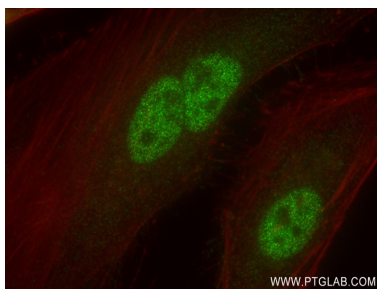
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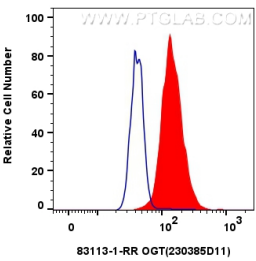
Selected Validation Data



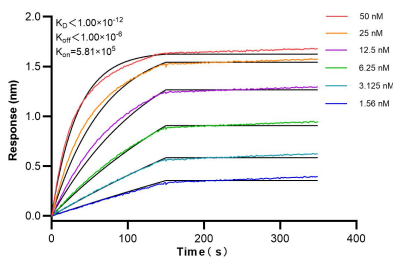
Various lysates were subjected to SDS PAGE followed by western blot with 83113-1-RR (OGT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OGT antibody (83113-1-RR, Clone: 230385D11) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ HeLa cells were intracellularly stained with 0.2 ug OGT Recombinant antibody (83113-1-RR, Clone:230385D11)(red), or 0.2 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83113-1-RR against Human OGT were performed. The affinity constant is below 1 pM.