

For Research Use Only

OGT Recombinant antibody

Catalog Number: 83113-1-RR



Basic Information

Catalog Number: 83113-1-RR	GenBank Accession Number: BC014434	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8473	CloneNo.: 230385D11
Source: Rabbit	UNIPROT ID: O15294	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	
Immunogen Catalog Number: AG2160	Calculated MW: 1046 aa, 117 kDa	
	Observed MW: 110 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : HepG2 cells, HeLa cells, HEK-293T cells, Jurkat cells, U-937 cells, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	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

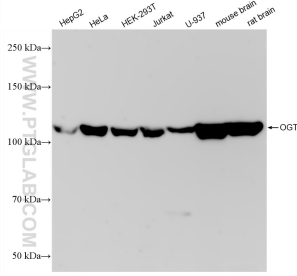
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

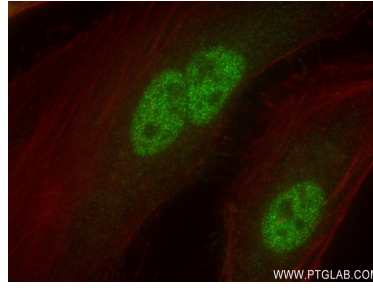
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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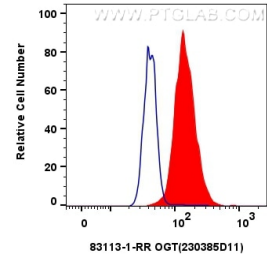
Selected Validation Data



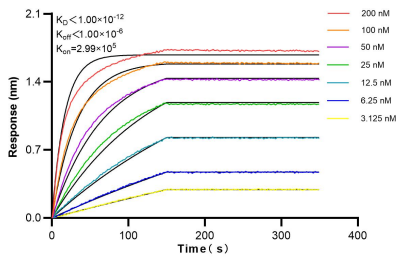
Various lysates were subjected to SDS PAGE followed by western blot with 83113-1-RR (OGT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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 Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 HeLa cells were intracellularly stained with 0.2 μ g OGT Recombinant antibody (83113-1-RR, Clone:230385D11)(red), or 0.2 μ g 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.