

OGT Polyclonal ANTIBODY

Catalog Number: 11576-2-AP

Featured Product

15 Publications

Basic Information

Catalog Number:
11576-2-AP

Size:
55 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG2160

GenBank Accession Number:
BC014434

GeneID (NCBI):
8473

Full Name:
O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:poly peptide-N-acetylglucosaminyl transferase)

Calculated MW:
1046aa, 117 kDa

Observed MW:
110 kDa

Recommended Dilutions:

WB 1:1000-1:3000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 : mouse brain tissue; mouse liver tissue

IP : mouse brain tissue;

IHC : human colon cancer tissue; rat stomach tissue, rat testis tissue, human pancreas cancer tissue, human lung cancer tissue

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, insulin 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
Xiao Han	31545463	Oncol Rep	
Jing Zhang	31539718	Atherosclerosis	WB
Chia-Wei Hu	29058723	Nat Chem Biol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

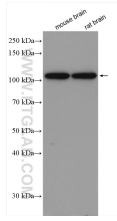
For technical support and original validation data for this product please contact:

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

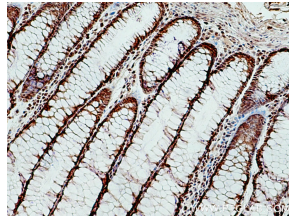
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

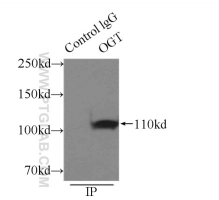
Selected Validation Data



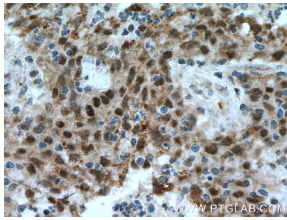
Various lysates were subjected to SDS PAGE followed by western blot with 11576-2-AP (CGT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11576-2-AP (CGT antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



IP Result of anti-OGT (IP:11576-2-AP, 3ug; Detection: 11576-2-AP 1:1000) with mouse brain tissue lysate 8000ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11576-2-AP (CGT Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).