

## OGT Polyclonal antibody

Catalog Number: 11576-2-AP

Featured Product

50 Publications

## Basic Information

## Catalog Number:

11576-2-AP

## Size:

450 µg/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:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Cited Applications:

WB, IP, IF, IHC, CoIP

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, 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:** HepG2 cells, mouse liver tissue, mouse brain tissue, rat brain tissue

**IP:** mouse brain tissue,

**IHC:** human colon cancer tissue, human lung cancer tissue, rat testis tissue, human pancreas 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, 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
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 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

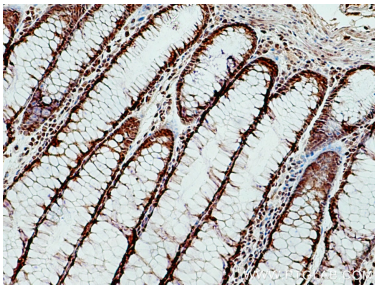
For technical support and original validation data for this product please contact:

T: 4006900926

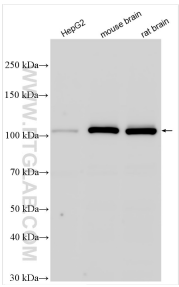
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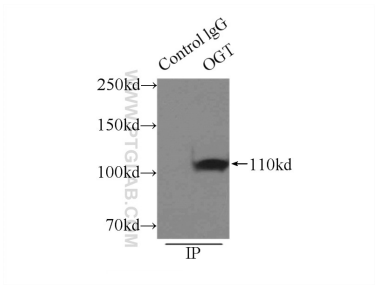
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11576-2-AP (OGT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 11576-2-AP (OGT antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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