For Research Use Only

OGT Polyclonal antibody

Catalog Number:11576-2-AP Featured Product 68 Publications

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Basic Information

Catalog Number:
11576-2-AP

Concentration:
450 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:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, IP-MS

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

IP : mouse brain tissue,

IHC : human colon cancer tissue, human lung cancer tissue, human pancreas cancer tissue, rat testis 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:
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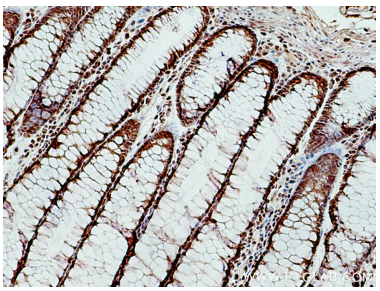
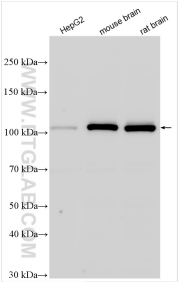
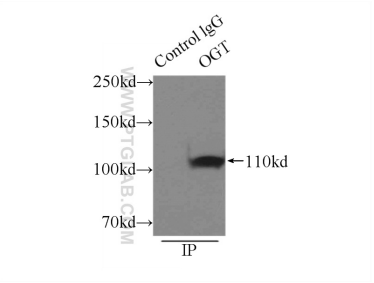
Selected Validation Data



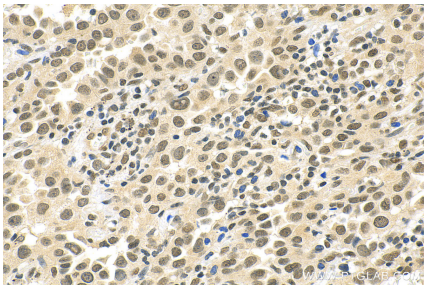
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11576-2-AP (OGT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11576-2-AP (OGT antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).