


Product datasheet

Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody ab96718

★★★★★ [11 Abreviews](#) [36 References](#) [10 Images](#)

Overview

Product name	Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody
Description	Rabbit polyclonal to OGT / O-Linked N-Acetylglucosamine Transferase
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat, Human, Zebrafish Predicted to work with: Cow, Pig 
Immunogen	Recombinant fragment corresponding to Human OGT/ O-Linked N-Acetylglucosamine Transferase aa 213-462. Database link: O15294
Positive control	WB: HeLa, PC-12 cells. Mouse brain tissue extracts. ICC/IF: MCF7, DU145, HeLa cells. IHC-P: Cal27 Xenograft. Rat hind brain. IP: A431 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab96718 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB	★★★★★ (8)	1/500 - 1/3000. Predicted molecular weight: 117 kDa.
IHC-P	★★★★★ (1)	1/100 - 1/1000.
IP		1/100 - 1/500.

Target

Function

Addition of nucleotide-activated sugars directly onto the polypeptide through O-glycosidic linkage with the hydroxyl of serine or threonine. Mediates the O-glycosylation of MLL5 and HCFC1. Promotes proteolytic maturation of HCFC1.

Tissue specificity

Highly expressed in pancreas and to a lesser extent in skeletal muscle, heart, brain and placenta. Present in trace amounts in lung and liver.

Pathway

Protein modification; protein glycosylation.

Sequence similarities

Belongs to the O-GlcNAc transferase family. Contains 13 TPR repeats.

Domain

The TPR repeat domain mediates recognition of protein substrates.

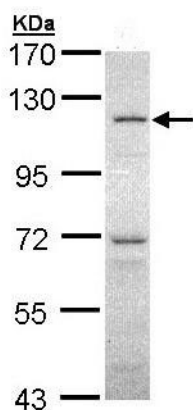
Post-translational modifications

Ubiquitinated, leading to its proteasomal degradation.

Cellular localization

Cytoplasm. Nucleus. Mostly in the nucleus.

Images

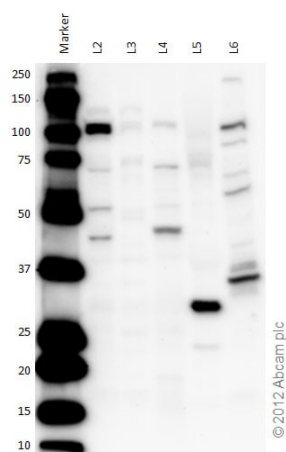


Western blot - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718) at 1/1000 dilution + HeLa whole cell lysate at 30 µg

Predicted band size: 117 kDa

7.5% SDS PAGE



Western blot - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

All lanes : Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718) at 1 µg/ml

Lane 1 : Marker

Lane 2 : Zebrafish brain homogenate at 20 µg

Lane 3 : Zebrafish heart homogenate at 20 µg

Lane 4 : Zebrafish liver homogenate at 20 µg

Lane 5 : Zebrafish skeletal muscle homogenate at 20 µg

Lane 6 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 20 µg

Secondary

All lanes : Goat polyclonal to Rabbit IgG – H&L – Pre-Adsorbed (HRP) at 1/6000 dilution

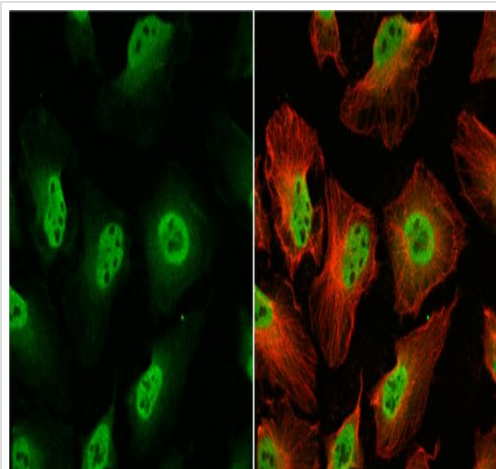
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 117 kDa

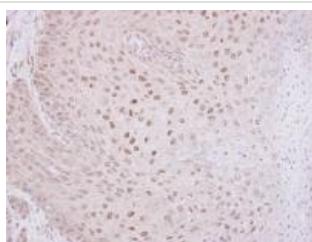
Observed band size: 117 kDa

Exposure time: 5 minutes



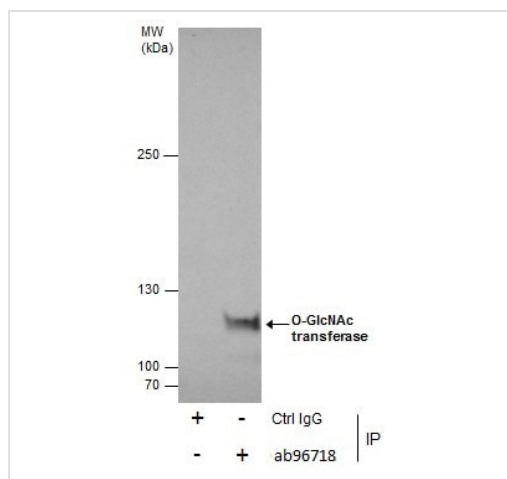
HeLa cells stained for O-GlcNAc (green) using ab96718 at 1/200 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

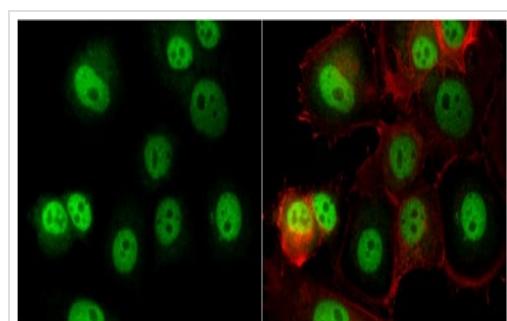


Immunohistochemical analysis of paraffin-embedded Cal27 Xenograft, using ab96718 at 1/100 dilution.

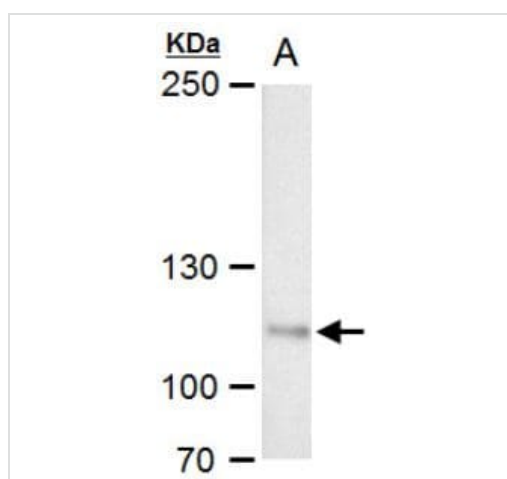
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)



Immunoprecipitation - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)



Immunocytochemistry/ Immunofluorescence - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

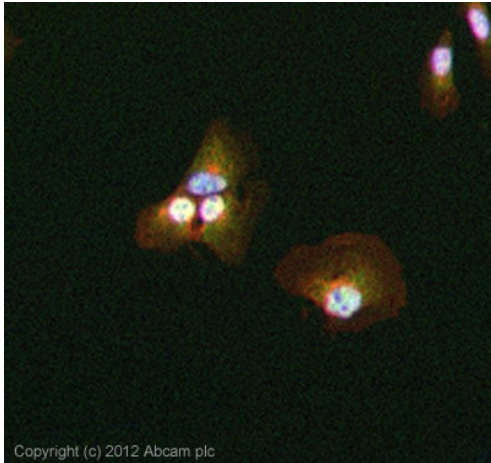


Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718) at 1/1000 dilution + PC-12 whole cell extract at 30 µg

Predicted band size: 117 kDa

5% SDS-PAGE

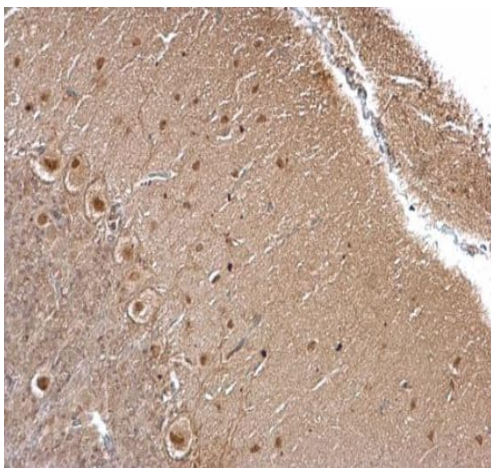
Western blot - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)



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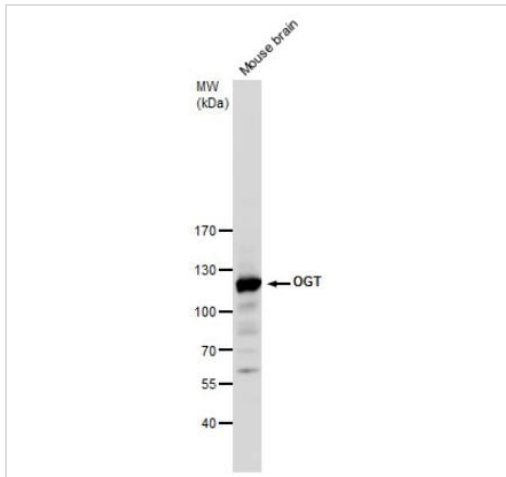
Immunocytochemistry/ Immunofluorescence - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

ICC/IF image of ab96718 stained DU145 cells. The cells were 4% paraformaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab96718, 1µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

Paraffin embedded rat hind brain tissue stained for O-GlcNAc using ab96718 at 1/500 in immunohistochemical analysis.



Western blot - Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718)

Anti-OGT / O-Linked N-Acetylglucosamine Transferase antibody (ab96718) at 1/2000 dilution + Mouse brain tissue extract at 50 µg

Predicted band size: 117 kDa

7.5% SDS-PAGE

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