

Product Name: KD-Validated OGT Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01668**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 116.9kDa

Antigen Information

Gene Name	OGT
Alternative Names	OGT; O-Linked N-Acetylglucosamine (GlcNAc) Transferase; O-GLCNAC; HRNT1; OGT1; O-Linked N-Acetylglucosamine (GlcNAc) Transferase (UDP-N-Acetylglucosamine:Polypeptide-N-Acetylglucosaminyl Transferase); UDP-N-Acetylglucosamine--Peptide N-Acetylglucosaminyltransferase 110 KDa Subunit; UDP-N-Acetylglucosamine:Polypeptide-N-Acetylglucosaminyl Transferase; O-Linked N-Acetylglucosamine Transferase 110 KDa Subunit; O-GlcNAc Transferase Subunit P110; MGC22921; FLJ23071; Uridinediphospho-N-Acetylglucosamine:Polypeptide Beta-N-Acetylglucosaminyl Transferase; O-GlcNAc Transferase P110 Subunit; EC 2.4.1.255; EC 2.4.1.186; HINCUT-1; EC 2.4.1; XLID106; MRX106
Gene ID	8473.0
SwissProt ID	O15294

Immunogen

A synthesized peptide derived from human OGT/O-Linked N-Acetylglucosamine Transferase

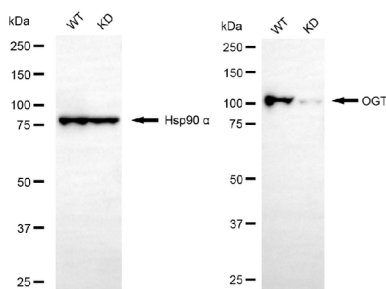
Background

This gene encodes a glycosyltransferase that catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they may alter the substrate specificity of nearby sites by steric or electrostatic effects. The protein contains multiple tetratricopeptide repeats that are required for optimal recognition of substrates. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

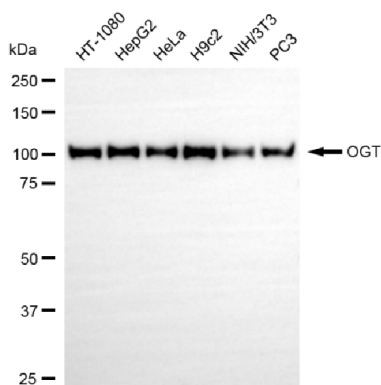
Research Area

Neuroscience, Signal Transduction

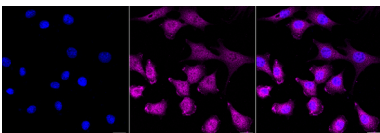
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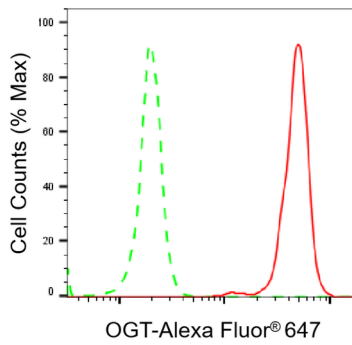
Western blotting analysis using OGT antibody (KVA01668). OGT expression in wild-type (WT) and OGT knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with OGT antibody (KVA01668, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using OGT antibody (KVA01668). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with OGT antibody (KVA01668, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with OGT antibody (KVA01668, 1:1,000). Nuclei were stained blue with DAPI; OGT was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of OGT expression in C2C12 cells using OGT antibody (KVA01668, 1:2,000). Green, isotype control; red, OGT.