



OGT Rabbit mAb

Catalog No	YP-rAb-17099
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	OGT
Protein Name	UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit (O-GlcNAc transferase subunit p110) (O-linked N-acetylglucosamine transferase 110 kDa subunit) (OGT)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	OGT;UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit (O-GlcNAc transferase subunit p110) (O-linked N-acetylglucosamine transferase 110 kDa subunit) (OGT);UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit ; O-GlcNAc transferase subunit p110 ; O-linked N-acetylglucosamine transferase 110 kDa subunit ; OGT
Observed Band	117kD
Calculated Molecular Weight	117kD
Cell Pathway	Nucleus . Cytoplasm . Predominantly localizes to the nucleus. .; [Isoform 2]: Mitochondrion . Membrane . Associates with the mitochondrial inner membrane. .; [Isoform 3]: Cytoplasm . Nucleus . Cell membrane . Mitochondrion membrane . Cell projection . Mostly in the nucleus. Retained in the nucleus via interaction with HCFC1 (PubMed:21285374). After insulin induction, translocated from the nucleus to the cell membrane via phosphatidylinositol binding. Colocalizes with AKT1 at the plasma membrane. TRAK1 recruits this protein to mitochondria. In the absence of TRAK1, localizes in cytosol and nucleus (By similarity). .; [Isoform 4]: Cytoplasm. Nucleus.
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.
Function	Catalytic activity:UDP-N-acetyl-D-glucosamine + peptide = UDP + N-acetyl-beta-D-glucosaminyl-peptide.,Function:Addition of nucleotide e-activated



sugars directly onto the polypeptide through O-glycosidic linkage with the hydroxyl of serine or threonine.,online information:UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110kDa subunit,pathway:Protein modification; protein glycosylation.,similarity:Belongs to the O-GlcNAc transferase family.,similarity:Contains 13 TPR repeats.,subunit:Heterotrimer of two 110 kDa and one 70 kDa subunits. It is not known if the 70 kDa subunit is encoded by a separate gene or is the product of either of a proteolytic degradation or an alternative initiation of the 110 kDa subunit (By similarity). Interacts with 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.,

Background

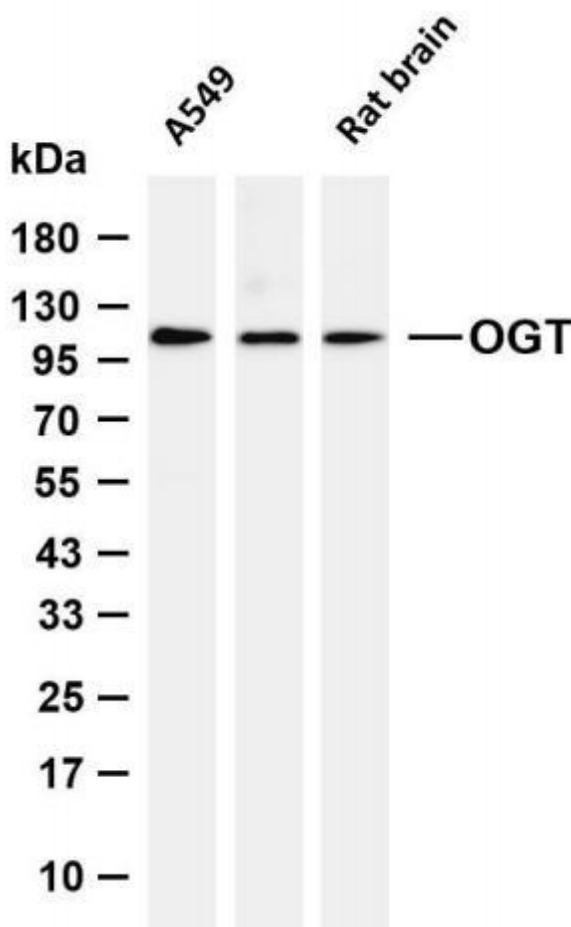
This gene encodes a glycosyltransferase that catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues . Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they 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],

matters needing attention

Avoid repeated freezing and thawing!

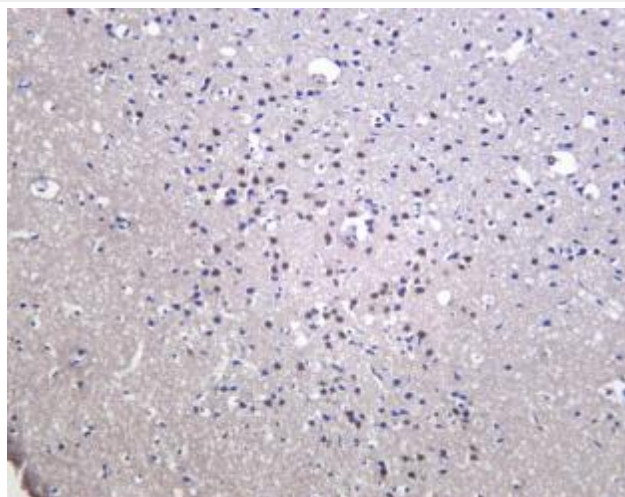
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-OGT antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: Mouse brain Lane 3: Rat brain Predicted band size: 117kDa Observed band size: 117kDa





Rat brain was stained with anti-OGT Rabbit antibody

