Datasheet for ABIN1385759

anti-OGT antibody (AA 951-1046)

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Overview

Quantity:	100 µL
Target:	OGT
Binding Specificity:	AA 951-1046
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OGT antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human O-GlcNAc transferase
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Cow
Purification:	Purified by Protein A.

Target Details

Target:	OGT

Target Details

Alternative Name:	O-GlcNAc transferase (OGT Products)
Background:	Synonyms: HRNT1, MGC22921, O-GlcNAc transferase, O GlcNAc, O-Linked N-Acetylglucosamine Transferase, O GlcNAc transferase p110 subunit, O GlcNAc transferase subunit p110, O linked N acetylglucosamine GlcNAc transferase UDP N acetylglucosamine:polypeptide N acetylglucosaminyl transferase, O linked N acetylglucosamine transferase 110 kDa subunit, O-GlcNAc transferase subunit p110, O-linked N-acetylglucosamine transferase 110 kDa subunit, OGT, OGT1_HUMAN, UDP N acetylglucosamine peptide N acetylglucosaminyltransferase 110 kDa subunit, UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit, Uridinediphospho N acetylglucosamine:polypeptide beta N acetylglucosaminyl transferase. Background: 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. 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. O-GlcNAc transferase has been purified from rat liver. It exists as a heterotrimeric complex with two subunits of the same molecular mass and one shorter subunit. Both polypeptides are related, the short subunit band is either a proteolytic product of the polypeptide or the product of an alternative translation start site. O-GlcNAc transferase is expressed as multiple transcripts that are present in different amounts in various human tissues, with the highest levels of expression in pancreas. Immunofluorescence of human cells expressing rat O-GlcNAc transferase indicated that it is present in both the nucleus and cytosol. HeLa cells expressing O-GlcNAc transferase do not survive well during prolonged incubations, suggesting that this protein may be toxic to the cells.
Gene ID:	8473
UniProt:	O15294
Pathways:	Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200

Application Details

	IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months