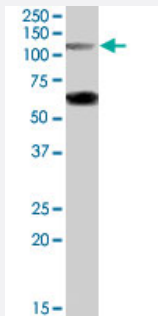


# OGT polyclonal antibody

Catalog # PAB7209      Size 100 ug

## Applications



### Western Blot (Tissue lysate)

OGT polyclonal antibody (Cat # PAB7209) (0.05 ug/mL) staining of rat pancreas lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Specification

<b>Product Description</b>	Goat polyclonal antibody raised against synthetic peptide of OGT.
<b>Immunogen</b>	A synthetic peptide corresponding to human OGT.
<b>Sequence</b>	C-YEHPKDLKLS DGR
<b>Host</b>	Goat
<b>Theoretical MW (kDa)</b>	117, 116
<b>Reactivity</b>	Mouse, Rat
<b>Specificity</b>	This antibody is expected to recognize both reported isoforms (NP_858058.1 and NP_858059.1.
<b>Form</b>	Liquid
<b>Purification</b>	Antigen affinity purification
<b>Concentration</b>	0.5 mg/mL
<b>Quality Control Testing</b>	Antibody Reactive Against Synthetic Peptide.

<b>Recommend Usage</b>	ELISA (1:64000) Western Blot (0.05-0.2 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
<b>Storage Instruction</b>	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

OGT polyclonal antibody (Cat # PAB7209) (0.05 ug/mL) staining of rat pancreas lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — OGT

<b>Entrez GeneID</b>	<a href="#">8473</a>
<b>Protein Accession#</b>	<a href="#">NP_858058.1</a> ; <a href="#">NP_858059.1</a>
<b>Gene Name</b>	OGT
<b>Gene Alias</b>	FLJ23071, HRNT1, MGC22921, O-GLCNAC
<b>Gene Description</b>	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
<b>Omim ID</b>	<a href="#">300255</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	O-linked N-acetylglucosamine (O-GlcNAc) transferase (OGT) 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 nine tetratricopeptide repeats and a putative bipartite nuclear localization signal. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]

**Other Designations**

O-GlcNAc transferase p110 subunit|O-linked GlcNAc transferase|OTTHUMP00000032154|OTTHUMP00000032166|uridinediphospho-N-acetylglucosamine:polypeptide beta-N-acetylglucosaminyl transferase

## Publication Reference

- [Insulin stimulates and diabetes inhibits O-linked N-acetylglucosamine transferase and O-glycosylation of Sp1.](#)

Majumdar G, Wright J, Markowitz P, Martinez-Hernandez A, Raghow R, Solomon SS.

Diabetes 2004 Dec; 53(12):3184.

Application: IHC, WB-Ce, Rat, H411E cells

## Pathway

- [Metabolic pathways](#)
- [O-Glycan biosynthesis](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)