

## OGT (Phospho Thr454) Rabbit pAb

CatalogNo: YP1623

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat

**Applications**

- WB, ELISA

**MW**

- 115kD (Calculated)

**Isotype**

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:1000-2000****ELISA 1:5000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human OGT (phospho Thr454)

**Specificity** This antibody detects endogenous levels of Human, Mouse, Rat OGT (phospho Thr454). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): YRtAL

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## | Target Information

**Gene name** OGT

**Protein Name** OGT (phospho Thr454)

Organism	Gene ID	UniProt ID
Human	<a href="#">8473</a> ;	<a href="#">O15294</a> ;
Mouse	<a href="#">108155</a> ;	<a href="#">Q8CGY8</a> ;
Rat	<a href="#">26295</a> ;	<a href="#">P56558</a> ;

### Cellular Localization

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 phosphatidylinositide 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-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.,

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## | Validation Data

## | Contact information

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Please scan the QR code to access additional product information:  
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