

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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

Target Information

Gene name OGT

Protein Name OGT (phospho Thr454)

Organism	Gene ID	UniProt ID
Human	8473 ;	O15294 ;
Mouse	108155 ;	Q8CGY8 ;
Rat	26295 ;	P56558 ;

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. ,

Validation Data

Contact information

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