

FPGT rabbit pAb

Catalog No :	YT7112
Reactivity :	Human;Mouse
Applications :	WB
Target :	FPGT
Fields :	>>Fructose and mannose metabolism;>>Amino sugar and nucleotide sugar metabolism;>>Metabolic pathways;>>Biosynthesis of nucleotide sugars
Gene Name :	FPGT GFPP
Protein Name :	FPGT
Human Gene Id :	8790
Human Swiss Prot No :	O14772
Immunogen :	Synthesized peptide derived from human FPGT AA range: 497-547
Specificity :	This antibody detects endogenous levels of FPGT at Human
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1[?]500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	65kD

Background :

L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways for the biosynthesis of GDP-fucose; the major pathway converts GDP-alpha-D-mannose to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway that is present in certain mammalian tissues, such as liver and kidney, and appears to function as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids. This pathway involves the phosphorylation of L-fucose to form beta-L-fucose-1-phosphate, and then condensation of the beta-L-fucose-1-phosphate with GTP by fucose-1-phosphate guanylyltransferase to form GDP-beta-L-fucose. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream TNNI3 interacting kinase (TNNI3K) gene. [provided by RefSeq, Dec 2010],

Function :

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,catalytic activity:GTP + beta-L-fucose 1-phosphate = diphosphate + GDP-L-fucose.,cofactor:Magnesium.,function:Catalyzes the formation of GDP-L-fucose from GTP and L-fucose-1-phosphate. Functions as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids.,function:May play a role in cardiac physiology.,PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 10 ANK repeats.,subcellular location:Expressed at lower levels in the cytoplasm.,subunit:Interacts with TNNI3, ACTC, ACTA1, MYBPC3, AIP, BABP3 and HADHB.,tissue specificity:Expressed in many tissues.,tissue specificity:Highly expressed in both adult and fetal heart.,

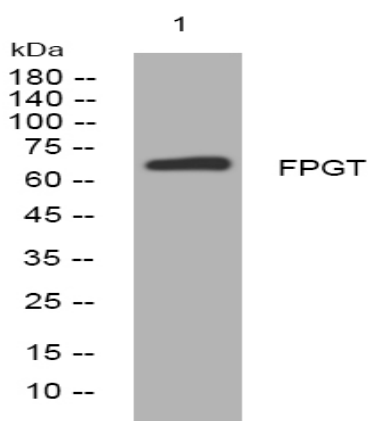
Subcellular Location :

Cytoplasm.

Expression :

Expressed in many tissues.

Products Images



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4° over night