

## Product datasheet for **TA343244**

### FPGT Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-FPGT antibody is: synthetic peptide directed towards the C-terminal region of Human FPGT. Synthetic peptide located within the following region: TSLNVVVLNNSKIFYHIGTTEEYLFYFTSDNSLSELGLQSITFSIFPDIP
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	66 kDa
Gene Name:	fucose-1-phosphate guanylyltransferase
Database Link:	<a href="#">NP_003829</a> <a href="#">Entrez Gene 8790 Human</a> <a href="#">O14772</a>



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**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.

**Synonyms:**

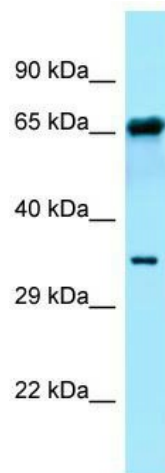
GFPP

**Note:**

Immunogen Sequence Homology: Pig: 100%; Human: 100%; Dog: 86%; Bovine: 86%; Guinea pig: 86%; Rat: 79%; Mouse: 79%

**Protein Pathways:**

Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

**Product images:**

WB Suggested Anti-FPGT Antibody; Titration: 1.0 ug/ml; Positive Control: ACHN Whole Cell