

Product datasheet for **TA358264**

FPGT Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Specificity: | Expected reactivity: Cow, Dog, Guinea Pig, Human, Mouse, Pig, Rat, Yeast Homology: Cow: 93%; Dog: 93%; Guinea Pig: 77%; Human: 100%; Mouse: 85%; Pig: 93%; Rat: 92%; Yeast: 91% |
| 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> |
| Concentration: | lot specific |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 37kDa |
| Gene Name: | fucose-1-phosphate guanylyltransferase |
| Database Link: | NP_001186257 Entrez Gene 8790 Human E9PNQ2 |



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Background:

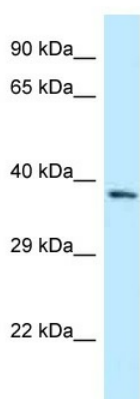
L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways 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

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: Fetal Liver