



Rabbit Anti-FPGT antibody

SL13211R

Product Name:	FPGT
Chinese Name:	岩藻糖1磷酸鸟苷酰转移酶抗体
Alias:	FPGT; FPGT_HUMAN; Fucose 1 phosphate guanylyltransferase; Fucose 1 phosphate guanylyltransferase; Fucose-1-phosphate guanylyltransferase; GDP beta L fucose pyrophosphorylase; GDP L fucose diphosphorylase; GDP L fucose pyrophosphorylase; GDP-L-fucose diphosphorylase; GDP-L-fucose pyrophosphorylase; GFPP.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	67kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FPGT:251-350/594
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Guanylyltransferase enzymes transfer one molecule of GTP to another molecule and also function in the transfer of guanosine nucleotides to sugar molecules. The carbohydrate moieties that are generated are covalently attached to cell surfaces and are necessary to ensure a surface contour that satisfies a variety of physiological roles. L-

fucose is an important sugar in complex carbohydrates that is frequently found on plant and mammalian N-linked glycans. FPGT (Fucose-1-phosphate guanylyltransferase), also known as GFPP (GDP-L-fucose pyrophosphorylase), is a 594 amino acid cytoplasmic protein that catalyzes the formation of GDP-L-fucose from L-fucose-1-phosphate and GTP. FPGT functions to reutilize the L-fucose that is produced upon glycoprotein and glycolipid turnover.

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.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Expressed in many tissues.

Similarity:

Expressed in many tissues.

SWISS:

O14772

Gene ID:

8790

Database links:

[Entrez Gene: 8790](#)Human

[Omim: 603609](#)Human

[SwissProt: O14772](#)Human

[Unigene: 480085](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.