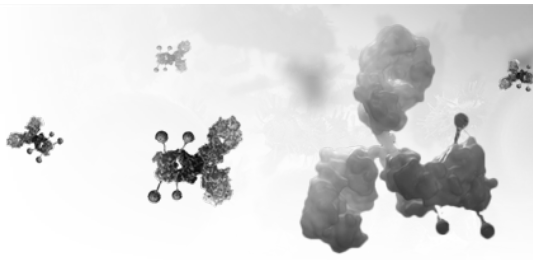

Anti-FPGT monoclonal antibody (DCABH-11614)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	A synthetic peptide of human FPGT is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	FPGT fucose-1-phosphate guanylyltransferase [Homo sapiens]
Official Symbol	FPGT
Synonyms	FPGT; fucose-1-phosphate guanylyltransferase; GFPP; GDP-L-fucose diphosphorylase; GDP-beta-L-fucose pyrophosphorylase; fucose-1-phosphate guanyltransferase;
Entrez Gene ID	8790
Protein Refseq	NP_001186257
UniProt ID	O14772
Chromosome Location	1p31.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; GDP-L-fucose biosynthesis II (from L-fucose), organism-specific biosystem; Metabolic pathways, organism-specific biosystem.
Function	GTP binding; catalytic activity; fucose-1-phosphate guanylyltransferase activity; nucleotide binding; nucleotidyltransferase activity;

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