Rabbit anti-Human, Mouse DPAGT1 Polyclonal Antibody | anti-DPAGT1 antibody

DPAGT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39234	**Rabbit**	**Human, Mouse**	**Immunofluorescence, Immunohistochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

DPAGT1; Polyclonal Antibody; DPAGT1 Antibody; GPT; ALG7; DGPT; G1PT; UAGT; UGAT; CDG1J; DPAGT; CDG-Ij; CMSTA2; DPAGT2; D11S366; UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase; GlcNAc-1-P transferase; dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminephosphotransferase 1 (GlcNAc-1-P transferase); anti-DPAGT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	At least four isoforms of DPAGT1 are known to exist; this antibody will recognize the two longest isoforms. DPAGT1 antibody is predicted to not cross-react with UHRF1BP1.
Purity/Purification	DPAGT1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	408
Applicable Applications for anti-DPAGT1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	DPAGT1 antibody was raised against a 17 amino acid synthetic peptide near the amino terminus of human DPAGT1.
Buffer	DPAGT1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	DPAGT1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES

IF (Immunofluorescence)
Immunofluorescence of DPAGT1 in human kidney tissue with DPAGT1 antibody at 20 μg/mL.

IHC (Immunohiostchemistry)
Immunohistochemistry of DPAGT1 in human kidney tissue with DPAGT1 antibody at 2.5 μg/mL.

WB (Western Blot)
Western blot analysis of DPAGT1 in mouse kidney tissue lysate with DPAGT1 antibody at 1 μg/mL in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DPAGT1 antibody	DPAGT1 Antibody: The UDP-N-acetylglucosamine-dolichyl-phosphate N-acetyl-glucosaminephosphotransferase (DPAGT1) is an enzyme that catalyzes the first step in the dolichol-linked oligosaccharide pathway for glycoprotein biosynthesis. Mutations in this integral endoplasmic reticulum (ER) membrane protein enzyme belongs to the glycosyltransferase family 4 results in the congenital disorder of glycosylation type Ij with symptoms such as severe hypotonia, medically intractable seizures, mental retardation, microcephaly, and exotropia. Recent experiments have shown that DPAGT1 is a target of the Wnt/beta-catenin signaling pathway, with Wnt3a inducing higher DPAGT1 mRNA expression.

NCBI AND UNIPROT INFORMATION

NCBI GI #	42794009
NCBI GeneID	1798
NCBI Accession #	NP_001373
NCBI GenBank Nucleotide #	NM_001382.3
UniProt Accession #	Q9H3H5; O15216; Q86WV9; Q9BWE6
Molecular Weight	34,270 Da
NCBI Official Full Name	UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase
NCBI Official Synonym Full Names	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminephosphotransferase 1 (GlcNAc-1-P transferase)
NCBI Official Symbol	DPAGT1
NCBI Official Synonym Symbols	GPT; ALG7; DGPT; G1PT; UAGT; UGAT; CDG1J; DPAGT; CDG-Ij; CMSTA2; DPAGT2; D11S366
NCBI Protein Information	UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase; GlcNAc-1-P transferase; N-acetylglucosamine-1-phosphate transferase; dolichyl-phosphate alpha-N-acetylglucosaminyltransferase; UDP-GlcNAc:dolichyl-phosphate N-acetylglucosaminephosphotransferase; dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminephosphotransferase 1 (GlcNAc-1-P tra
UniProt Protein Name	UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase
UniProt Gene Name	**DPAGT1**
UniProt Synonym Gene Names	DPAGT2; G1PT; GPT
UniProt Entry Name	GPT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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