Datasheet for ABIN1450055

anti-DPAGT1 antibody (N-Term)

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Overview

Quantity:	0.1 mg
Target:	DPAGT1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DPAGT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA), Immunofluorescence (IF)

Product Details

Immunogen:	17 amino acid synthetic peptide near the amino terminus of Human DPAGT1
Isotype:	IgG
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	DPAGT1
Alternative Name:	DPAGT1 (DPAGT1 Products)
Background:	The UDP-N-acetylglucosamine-dolichyl-phosphate N-acetyl-glucosaminephosphotransferase

Target Details

	(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.Synonyms: DPAGT2, G1PT, GPT, GlcNAc-1-P transferase, N-acetylglucosamine-1-phosphate transferase, UDP-N-acetylglucosamine-dolichyl-phosphate N-acetylglucosaminephosphotransferase
Gene ID:	1798
NCBI Accession:	NP_001373

Application Details

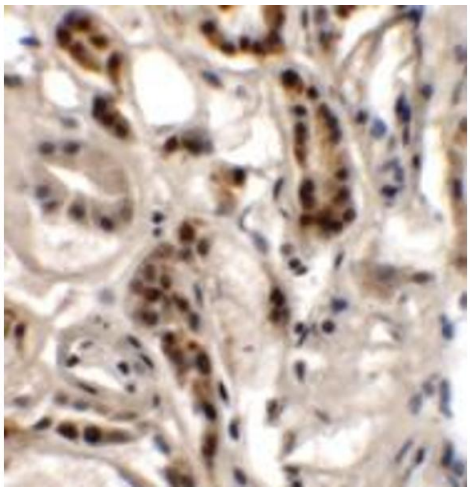
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.02 % Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

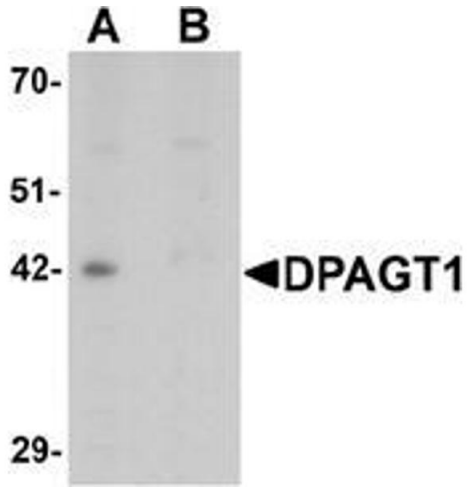
Publications

Product cited in:	Zhao, Yin, Li, Fan, Yang, Chen, Wang: "MiR-30c protects diabetic nephropathy by suppressing epithelial-to-mesenchymal transition in db/db mice." in: **Aging cell**, Vol. 16, Issue 2, pp. 387-400, (2017) (PubMed).



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of DPAGT1 in human kidney tissue with DPAGT1 antibody at 2.5 ug/mL.



Western Blotting

Image 2. 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.