Datasheet for ABIN7603221

anti-GPD1 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	GPD1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-GPD1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human GPD1. Human GPD1 shares 100% amino acid (aa) sequence identity with both mouse and rat GPD1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-GPD1 Antibody Picoband® (ABIN7603221). Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GPD1
Alternative Name:	GPD1 (GPD1 Products)
Background:	Synonyms: GPD1, Glycerol-3-phosphate dehydrogenase [NAD(+], cytoplasmic, GPD-C, GPDH-C, EC 1.1.1.8 Background: This gene encodes a member of the NAD-dependent glycerol-3-phosphate dehydrogenase family. The encoded protein plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of dihydroxyacetone phosphate (DHAP) and reduced nicotine adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD+. The encoded cytosolic protein and mitochondrial glycerol-3-phosphate dehydrogenase also form a glycerol phosphate shuttle that facilitates the transfer of reducing equivalents from the cytosol to mitochondria. Mutations in this gene are a cause of transient infantile hypertriglyceridemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Weight:	38 kDa
Gene ID:	2819
UniProt:	P21695

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry, 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human

1. Basel-Vanagaite, L., Zevit, N., Zahav, A. H., Guo, L., Parathath, S., Pasmanik-Chor, M., McIntyre, A. D., Wang, J., Albin-Kaplanski, A., Hartman, C., Marom, D., Zeharia, A., Badir, A., Shoerman, O., Simon, A. J., Rechavi, G., Shohat, M., Hegele, R. A., Fisher, E. A., Shamir, R. Transient infantile hypertriglyceridemia, fatty liver, and hepatic fibrosis caused by mutated GPD1, encoding glycerol-3-phosphate dehydrogenase 1. Am. J. Hum. Genet. 90: 49-60, 2012. 2. Brown, L. J., Koza, R. A., Marshall, L., Kozak, L. P., MacDonald, M. J. Lethal hypoglycemic ketosis and glyceroluria in mice lacking both the mitochondrial and the cytosolic glycerol phosphate dehydrogenases. J. Biol. Chem. 277: 32899-32904, 2002. 3. Dionisi-Vici, C., Shteyer, E., Niceta, M., Rizzo, C., Pode-Shakked, B., Chillemi, G., Bruselles, A., Semeraro, M., Barel, O., Eyal, E., Kol, N., Haberman, Y., Lahad, A., Diomedi-Camassei, F., Marek-Yagel, D., Rechavi, G., Tartaglia, M., Anikster, Y. Expanding the molecular diversity and phenotypic spectrum of glycerol 3-phosphate dehydrogenase 1 deficiency. J. Inherit. Metab. Dis. 39: 689-695, 2016.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.