

Datasheet for ABIN5596858
anti-GPD1 antibody (HRP)



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1 Image

Overview

Quantity:	100 µg
Target:	GPD1
Reactivity:	Rabbit
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This GPD1 antibody is conjugated to HRP
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Glycerol-3-Phosphate Dehydrogenase Antibody Peroxidase Conjugated
Immunogen:	Immunogen: Glycerol-3-Phosphate-Dehydrogenase [Rabbit Muscle] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum as well as purified and partially purified Glycerol-3-Phosphate-Dehydrogenase [Rabbit Muscle].
Characteristics:	Synonyms: goat anti-Glycerol-3-Phosphate Dehydrogenase Antibody HRP Conjugation, Peroxidase Conjugated goat anti-Glycerol-3-Phosphate Dehydrogenase Antibody, FLJ26652 antibody, G3PD antibody, Gdc-1 antibody, Glycerphosphate dehydrogenase antibody, GPD-C antibody, Gpd1 protein antibody
Purification:	Glycerol-3-Phosphate Dehydrogenase is an IgG fraction antibody purified from monospecific

Product Details

antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Target Details

Target:	GPD1
Alternative Name:	GPD1 (GPD1 Products)
Background:	<p>Background: Glycerol-3-phosphate dehydrogenase serves as a major link between carbohydrate metabolism and lipid metabolism. Through the reduction of dihydroxyacetone phosphate into glycerol 3-phosphate, GPDH allows the prompt dephosphorylation of glycerol 3-phosphate into glycerol. It is also a major contributor of electrons to the electron transport chain in the mitochondria. GPDH is responsible for maintaining the redox potential across the inner mitochondrial membrane in glycolysis. Since glycerol is a main subunit in lipid metabolism, its abundance can easily lead to an increase in triglyceride accumulation at a cellular level. As a result, there is a tendency to form adipose tissue leading to an accumulation of fat that favors obesity. GPDH has also been found to play a role in Brugada syndrome. Mutations in the gene encoding GPD1 have been proven to cause defects in the electron transport chain. This conflict with NAD⁺/NADH levels in the cell is believed to contribute to defects in cardiac sodium ion channel regulation and can lead to a lethal arrhythmia during infancy.</p>
Gene ID:	100339469, 3043365
UniProt:	P08507

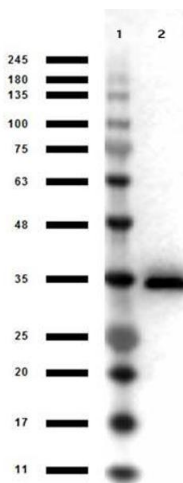
Application Details

Application Notes:	<p>Application Note: Anti-Glycerol-3-Phosphate Dehydrogenase has been tested by western blot and is suitable to be assayed against 1.0 µg of Glycerol-3-Phosphate-Dehydrogenase [Rabbit Muscle] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:500 to 1:2,500 of the reconstitution concentration is suggested for this product.</p> <p>Western Blot Dilution: 1:500 - 1:2,500</p> <p>ELISA Dilution: 1:1,000 - 1:5,000</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free Preservative: 0.01 % (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Preservative:	Gentamicin sulfate
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western Blot results of Goat Anti-Glycerol 3 Phosphate-Dehydrogenase Peroxidase Conjugated. Lane 1: Opal Prestained Molecular weight Ladder . Lane 2: Glycerol 3 Phosphate-Dehydrogenase. Load: 1µg. Primary Antibody: Goat anti-Glycerol 3 Phosphate-Dehydrogenase Peroxidase Conjugated Antibody at 1µg/mL overnight at 4°C. Secondary Antibody: Donkey Anti-Goat HRP at 1:40,000 for 30min at RT. Blocking: BlockOut for 30 min at RT. Expect: ~37kDa.