

**Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody**  
**Glycerol-3-Phosphate Dehydrogenase Antibody**  
**Catalog # ASR3922****Specification****Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Target Species	Rabbit
Reactivity	Rabbit
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody has been assayed against 1.0 ug of Glycerol-3-Phosphate Dehydrogenase [Rabbit Muscle] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Goat) code #611-1302 and (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 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product. Specific conditions should be optimized by researcher.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Glycerol-3-Phosphate Dehydrogenase [Rabbit Muscle]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

**Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody - Additional Information****Other Names**

100339469

**Purity**

Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Glycerol-3-Phosphate Dehydrogenase [Rabbit Muscle]. Cross reactivity against Glycerol-3-Phosphate Dehydrogenase from other sources is

unknown.

**Storage Condition**

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.

**Precautions Note**

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

**Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody - Protein Information**

**Name** GPD1

**Function**

Has glycerol-3-phosphate dehydrogenase activity.

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:P21695}.

**Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody - Images****Anti-GLYCEROL-3-PHOSPHATE DEHYDROGENASE (GOAT) Antibody - Background**

Glycerol-3-phosphate dehydrogenase (GPDH) is an enzyme that catalyzes the reversible redox conversion of dihydroxyacetone phosphate (aka glycero phosphate, outdated) to sn-glycerol 3-phosphate. Glycerol-3-phosphate dehydrogenase serves as a major link between carbohydrate metabolism and lipid metabolism. It is also a major contributor of electrons to the electron transport chain in the mitochondria. Older terms for glycerol-3-phosphate dehydrogenase include alpha glycerol-3-phosphate dehydrogenase (alphaGPDH) and glycerolphosphate dehydrogenase (GPDH). However, glycerol-3-phosphate dehydrogenase is not the same as glyceraldehyde 3-phosphate dehydrogenase (GAPDH) whose substrate is an aldehyde not an alcohol. Anti-Glycerol-3-Phosphate Dehydrogenase Antibody is ideal for investigators involved in glucose energy metabolism research.