

Rabbit anti-Human Glycerol 3 Phosphate Dehydrogenase/GPD1 Polyclonal Antibody | anti-GPD1 antibody

Anti-Glycerol 3 Phosphate Dehydrogenase/GPD1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255821	Rabbit	Human	Immunoprecipitation, Western Blot

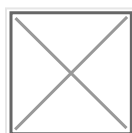
PRODUCT SYNONYMS

Glycerol 3 Phosphate Dehydrogenase/GPD1; Polyclonal Antibody; Anti-Glycerol 3 Phosphate Dehydrogenase/GPD1 Antibody; Rabbit Polyclonal; GPD1/Glycerolphosphate Dehydrogenase 1 Antibody; Rabbit PAb; Antigen Affinity Purified; glycerol-3-phosphate dehydrogenase 1 (soluble); Anti-GPD-C Antibody; Anti-GPDH-C Antibody; Anti-HTGTI Antibody; anti-GPD1 antibody

PRODUCT SPECIFICATIONS

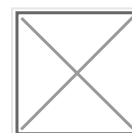
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Glycerol 3 Phosphate Dehydrogenase/GPD1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GPD1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Recombinant Human GPD1/Glycerolphosphate Dehydrogenase 1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human GPD1/Glycerolphosphate Dehydrogenase 1 (rh GPD1/Glycerolphosphate Dehydrogenase 1). GPD1/Glycerolphosphate Dehydrogenase 1 specific IgG was purified by Human GPD1/Glycerolphosphate Dehydrogenase 1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

GPD1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 0.5 uL anti-GPD1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-GPD1 rabbit polyclonal antibody, at 1:500 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 38 kDa. Observed band size: 38 kDa.



WB (Western Blot)

Anti-GPD1 rabbit polyclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 38 kDa. Observed band size: 35 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GPD1 antibody	GPD1 (Glycerol-3-Phosphate Dehydrogenase 1) is a Protein Coding gene. 2 alternatively spliced human isoforms have been reported. GPD1 is 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+. It also reduces nicotine adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD+. Meanwhile, GPD1 and mitochondrial glycerol-3-phosphate dehydrogenase also form a glycerol phosphate shuttle that facilitates the transfer of reducing equivalents from the cytosol to mitochondria. Diseases associated with GPD1 include Hypertriglyceridemia, Transient Infantile, and Myopathy, Distal, 1.
References	Ou X. et al., 2006, J Mol Biol. 357 (3): 858-69. Ou Xianjin. et al., 2011, Journal of Molecular Biology. 357 (3): 858-69. Harding Jr. et al., 1975, Biochem Journal. 146: 223-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	380714668
NCBI GeneID	2819
NCBI Accession #	NP_001244128.1
NCBI GenBank Nucleotide #	NM_001257199.1
UniProt Accession #	P21695; Q8N1B0; F8W1L5
Molecular Weight	35,140 Da
NCBI Official Full Name	glycerol-3-phosphate dehydrogenase
NCBI Official Synonym Full Names	glycerol-3-phosphate dehydrogenase 1 (soluble)
NCBI Official Symbol	GPD1
NCBI Official Synonym Symbols	GPD-C; HTGTI; GPDH-C
NCBI Protein Information	glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic; glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic; glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic; glycerophosphate dehydrogenase
UniProt Protein Name	Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic
UniProt Gene Name	GPD1
UniProt Synonym Gene Names	GPD-C; GPDH-C
UniProt Entry Name	GPDA_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/glycerol-3-phosphate-dehydrogenase-gpd1-antibody-immunoprecipitation-western-blot-elisa/255821>