

For Research Use Only

GPD1 Recombinant antibody, PBS Only

Catalog Number: 84800-4-PBS



Basic Information

Catalog Number: 84800-4-PBS	GenBank Accession Number: BC032234	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 2819	CloneNo.: 242359C4
Source: Rabbit	UNIPROT ID: P21695	
Isotype: IgG	Full Name: glycerol-3-phosphate dehydrogenase 1 (soluble)	
Immunogen Catalog Number: AG4278	Calculated MW: 349 aa, 38 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse

Background Information

GPD1 (Glycerol-3-phosphate dehydrogenase 1) is an important enzyme belonging to the NAD-dependent glycerol-3-phosphate dehydrogenase family. Its C-terminal structural domain contains multiple helical structures for binding the substrate DHAP, and its N-terminal structural domain contains a β -folded core for binding NADH. GPD1 catalyzes the conversion of dihydroxyacetone phosphate (DHAP) and reduced nicotinamide adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD⁺, and plays a key role in carbohydrate and lipid metabolism. GPD1 also works with mitochondrial glycerol-3-phosphate dehydrogenase to form a glycerophosphate shuttle system that facilitates the transfer of reducing equivalents from the cytoplasm to the mitochondria. Abnormal activity of GPD1 has been associated with a variety of metabolic disorders, such as obesity, hypertriglyceridemia, and GPD1 has been implicated in cancer, potentially acting as a tumor suppressor.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

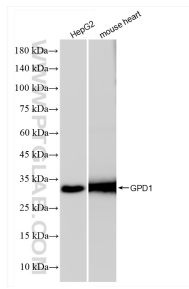
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84800-4-RR (GPD1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84800-4-PBS in a different storage buffer formulation.