For Research Use Only

GPD1 Recombinant antibody

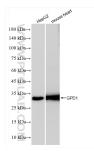
Catalog Number:84800-4-RR



Basic Information	Catalog Number: 84800-4-RR	GenBank Accession Number: BC032234	Purification Method: Protein A purfication
	Concentration: 1000 µg/ml	GenelD (NCBI): 2819	CloneNo.: 242359C4
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG4278	UNIPROT ID: P21695	Recommended Dilutions: WB 1:1000-1:6000
		Full Name: glycerol-3-phosphate dehydrogenase 1 (soluble)	
		Calculated MW: 349 aa, 38 kDa	
		Observed MW: 32 kDa	
Applications	Tested Applications: WB, ELISA Species Specificity: human, mouse	Positive C	Controls: 52 cells, mouse heart tissue
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 -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.	

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.