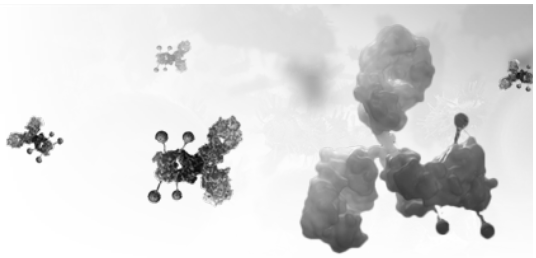

Anti-PRPS1 (aa 1-100) polyclonal antibody (DPAB-DC2511)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes an enzyme that catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for purine metabolism and nucleotide biosynthesis. Defects in this gene are a cause of phosphoribosylpyrophosphate synthetase superactivity, Charcot-Marie-Tooth disease X-linked recessive type 5 and Arts Syndrome. Two transcript variants encoding different isoforms have been found for this gene.
Immunogen	PRPS1 (NP_002755, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. The sequence is MPNIKIFSGSSHQDLSQKIADRLGLELGKVVTKKFSNQETCVEIGESVRGEDVYIVQSGC GEINDNLMELLIMINACKIASASRVTAVIPCFPYARQDKK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Transfected lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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Gene Name	PRPS1 phosphoribosyl pyrophosphate synthetase 1 [Homo sapiens (human)]
Official Symbol	PRPS1
Synonyms	PRPS1; phosphoribosyl pyrophosphate synthetase 1; ARTS; DFN2; PRSI; CMTX5; DFNX1; PRS-I; PPRibP; ribose-phosphate pyrophosphokinase 1; deafness 2, perceptive, congenital; ribose-phosphate diphosphokinase 1; phosphoribosyl pyrophosphate synthase I; deafness, X-linked 2, perceptive, congenital; dJ1070B1.2 (phosphoribosyl pyrophosphate synthetase 1);
Entrez Gene ID	5631
Protein Refseq	NP_001191331
UniProt ID	B7ZB02
Chromosome Location	Xq22.3
Pathway	5-Phosphoribose 1-diphosphate biosynthesis; Biosynthesis of amino acids; Carbon metabolism; Glycogen storage diseases
Function	ADP binding; AMP binding; ATP binding; GDP binding

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