



# Rabbit Anti-Human PGK1 Polyclonal Antibody (CABT-L2054)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Phosphoglycerate Kinase 1 (Knockout Validated)
<b>Specificity</b>	The antibody is a rabbit polyclonal antibody raised against PGK1. It has been selected for its ability to recognize PGK1 in immunohistochemical staining and western blotting.
<b>Target</b>	PGK1
<b>Immunogen</b>	Recombinant fragment corresponding to human PGK1 (Ser2-Ile417)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Pig
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300

<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
<b>Ship</b>	4°C with ice bags

## BACKGROUND

<b>Introduction</b>	The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. Additionally, this protein is secreted by tumor cells where it participates in angiogenesis by functioning to reduce disulfide bonds in the serine protease, plasmin, which consequently leads to the release of the tumor blood vessel inhibitor angiostatin. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Deficiency of the enzyme is associated with a wide range of clinical phenotypes hemolytic anemia and neurological impairment. Pseudogenes of this gene have been defined on chromosomes 19, 21 and the X chromosome. [provided by RefSeq, Jan 2014]
<b>Keywords</b>	MIG10;PGKA;PRP 2;Cell migration-inducing gene 10 protein;Primer recognition protein 2

## GENE INFORMATION

<b>Gene Name</b>	PGK1 phosphoglycerate kinase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PGK1
<b>Synonyms</b>	PGK1; phosphoglycerate kinase 1; PGKA; MIG10; HEL-S-68p; PRP 2; primer recognition protein 2; cell migration-inducing gene 10 protein; epididymis secretory sperm binding protein Li 68p;
<b>Entrez Gene ID</b>	<a href="#">5230</a>
<b>Protein Refseq</b>	NP_000282
<b>UniProt ID</b>	<a href="#">P00558</a>
<b>Chromosome Location</b>	Xq13.3
<b>Pathway</b>	Biosynthesis of amino acids; Carbon metabolism; Disease; Gluconeogenesis; Gluconeogenesis, oxaloacetate => fructose-6P; Glucose metabolism; Glycogen storage diseases; Glycolysis;
<b>Function</b>	ATP binding; phosphoglycerate kinase activity; protein binding;