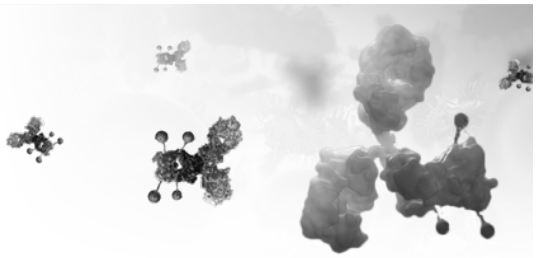

Anti-PGK1 (aa 321-417) polyclonal antibody (DPAB-DC2232)

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

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	PGK1 (NP_000282, 321 a.a. ~ 417 a.a) partial recombinant protein with GST tag. The sequence is SKKYAEAVTRAKQIVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGGGASLELLEGKVLPGVDALSNI
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell 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.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

GENE INFORMATION

Gene Name	PGK1 phosphoglycerate kinase 1 [Homo sapiens (human)]
Official Symbol	PGK1
Synonyms	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;
Entrez Gene ID	5230
Protein Refseq	NP_000282
UniProt ID	P00558
Chromosome Location	Xq13.3
Pathway	Biosynthesis of amino acids; Carbon metabolism; Disease; Gluconeogenesis, oxaloacetate =>
Function	ATP binding; phosphoglycerate kinase activity; protein binding;

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