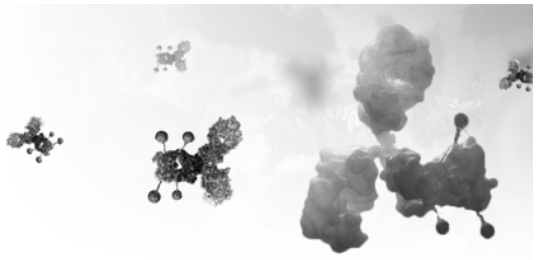

Anti-PHKB (aa 984-1093) polyclonal antibody (DPAB-DC2240)

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

PRODUCT INFORMATION

Antigen Description	Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunit includes the skeletal muscle and hepatic isoforms, encoded by two different genes. The beta subunit is the same in both the muscle and hepatic isoforms, encoded by this gene, which is a member of the phosphorylase b kinase regulatory subunit family. The gamma subunit also includes the skeletal muscle and hepatic isoforms, encoded by two different genes. The delta subunit is a calmodulin and can be encoded by three different genes. The gamma subunits contain the active site of the enzyme, whereas the alpha and beta subunits have regulatory functions controlled by phosphorylation. The delta subunit mediates the dependence of the enzyme on calcium concentration. Mutations in this gene cause glycogen storage disease type 9B, also known as phosphorylase kinase deficiency of liver and muscle. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. Two pseudogenes have been found on chromosomes 14 and 20, respectively.[provided by RefSeq, Feb 2010]
Immunogen	PHKB (NP_000284, 984 a.a. ~ 1093 a.a) partial recombinant protein with GST tag. The sequence is EDTLGNIDQPQYRQIVVELLMVVSIVLERNPELEFQDKVDLDRLVKEAFNEFQKDQSRLK EIEKQDDMTSFYNTPPLGKRGTCSYLTKAVMNLLLEGEVKPNNDDPCLIS
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

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Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PHKB phosphorylase kinase, beta [Homo sapiens (human)]
Official Symbol	PHKB
Synonyms	PHKB; phosphorylase kinase, beta; phosphorylase b kinase regulatory subunit beta; phosphorylase kinase beta-subunit; phosphorylase kinase subunit beta;
Entrez Gene ID	5257
Protein Refseq	NP_000284
UniProt ID	Q93100
Chromosome Location	16q12-q13
Pathway	Calcium signaling pathway; Disease; Glycogen Metabolism; Glycogen storage diseases
Function	calmodulin binding; hydrolase activity, hydrolyzing O-glycosyl compounds; phosphorylase kinase activity; protein binding

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