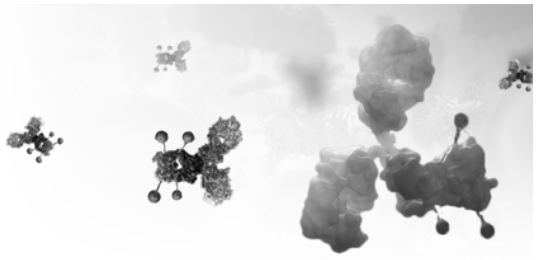

Anti-PHKA2 (aa 428-521) polyclonal antibody (DPAB-DC2239)

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, and the hepatic isoform is encoded by this gene. The beta subunit is the same in both the muscle and hepatic isoforms, and encoded by one gene. The gamma subunit also includes the skeletal muscle and hepatic isoforms, which are 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 9A, also known as X-linked liver glycogenosis. Alternatively spliced transcript variants have been reported, but the full-length nature of these variants has not been determined.[provided by RefSeq, Feb 2010]
Immunogen	PHKA2 (NP_000283, 428 a.a. ~ 521 a.a) partial recombinant protein with GST tag. The sequence is RRFSTSVKPDVVVQVTVLAENNHIKDLLRKHGVNVQSIADIHPIQVQPGRILSHIYAKLG RNKNMNLSGRPYRHIGVLGTSKLYVIRNQIFTFT
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PHKA2 phosphorylase kinase, alpha 2 (liver) [Homo sapiens (human)]
Official Symbol	PHKA2
Synonyms	PHKA2; phosphorylase kinase, alpha 2 (liver); PHK; PYK; XLG; PYKL; XLG2; GSD9A; phosphorylase b kinase regulatory subunit alpha, liver isoform; phosphorylase kinase alpha-subunit; phosphorylase kinase alpha L subunit; phosphorylase b kinase regulatory subunit alpha liver isoform;
Entrez Gene ID	5256
Protein Refseq	NP_000283
UniProt ID	P46019
Chromosome Location	Xp22.2-p22.1
Pathway	Calcium signaling pathway; Disease; Glycogen Metabolism; Glycogen storage diseases
Function	calmodulin binding; hydrolase activity, hydrolyzing O-glycosyl compounds; phosphorylase kinase activity;

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