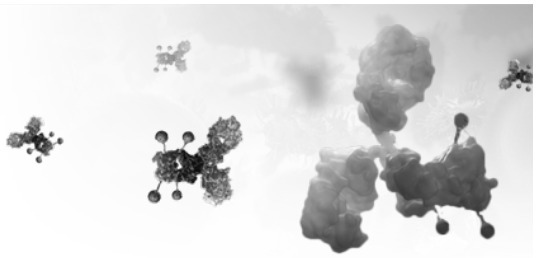

Anti-PHKA1 (aa 631-730) polyclonal antibody (DPAB-DC2238)

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 skeletal muscle 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 9D, also known as X-linked muscle glycogenosis. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. A pseudogene has been found on chromosome 1.[provided by RefSeq, Feb 2010]
Immunogen	PHKA1 (NP_002628, 631 a.a. ~ 730 a.a) partial recombinant protein with GST tag. The sequence is DYDDNYDYLESGNWMNDYDSTSHARCGDEVARYLDHLLAHTAPHPKLAPTSQKGGLDRFQ AAVQTTCDLMSLVTKAKELHVQNVHMYLPTKLFQASRPSF
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	PHKA1 phosphorylase kinase, alpha 1 (muscle) [Homo sapiens (human)]
Official Symbol	PHKA1
Synonyms	PHKA1; phosphorylase kinase, alpha 1 (muscle); PHKA; phosphorylase b kinase regulatory subunit alpha, skeletal muscle isoform; phosphorylase kinase alpha M subunit; phosphorylase kinase, alpha 1 (muscle), muscle glycogenosis; phosphorylase b kinase regulatory subunit alpha skeletal muscle isoform;
Entrez Gene ID	5255
Protein Refseq	NP_001116142
UniProt ID	P46020
Chromosome Location	Xq12-q13
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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