PHKG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PHKG2, Polyclonal Antibody
Full Product Name	PHKG2 (Phosphorylase Kinase Subunit gamma 2, Phosphorylase B Kinase gamma Catalytic Chain Testis/liver Isoform, PHK-gamma-T, GSD9C, PSK
Product Gene Name	anti-PHKG2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PHKG2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	43,158 Da
OMIM	172471
3D Structure	ModBase 3D Structure for P15735
Immunogen	Full length human PHKG2, aa1-406 (NP_000285.1).
Immunogen Sequence	MTLDVGPEDELPDWAAAKEFYQKYDPKDVIGRGVSSVVRRCVHRATGHEFAVKIMEVTAERLSPEQLEEVREATRRETHILRQVAGHPHIITLIDSYESSS
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PHKG2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PHKG2 antibody	Western Blot (WB)
Application Notes for anti-PHKG2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PHKG2 antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) co group consists of 75 kinases regulated by Ca2+/CaM and close relative family (CAMK, CAMKL, DAPK, MAPKAPK).

Other Notes	Small volumes of anti-PHKG2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces
Searchable Terms for PHKG2 purchase	MBS6389333 is an antibody targeting PHKG2. Also known as PHKG2 (Phosphorylase Kinase Subunit gamma 2, Phosphorylase B Kinase gamma Cat

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PHKG2. It may not necessarily be applicable to this product.

NCBI GI #	4505785
NCBI GeneID	5261
NCBI Accession #	NP_000285.1
UniProt Primary Accession #	P15735
UniProt Secondary Accession #	P11800; A8K0C7; B4DEB7; E9PEU3
UniProt Related Accession #	P15735
GenBank Nucleotide #	NM_000294.1
NCBI Official Full Name	phosphorylase b kinase gamma catalytic chain, liver/testis isoform isoform 1
NCBI Official Synonym Full Names	phosphorylase kinase catalytic subunit gamma 2
NCBI Official Symbol	PHKG2
NCBI Official Synonym Symbols	GSD9C
UniProt Protein Name	Phosphorylase b kinase gamma catalytic chain, liver/testis isoform
UniProt Synonym Protein Names	PSK-C3; Phosphorylase kinase subunit gamma-2
Protein Family	Phosphorylase b kinase
UniProt Gene Name	PHKG2
UniProt Synonym Gene Names	PHK-gamma-LT; PHK-gamma-T
UniProt Entry Name	PHKG2_HUMAN
NCBI Protein Information	phosphorylase b kinase gamma catalytic chain, liver/testis isoform
NCBI Summary for PHKG2	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, and encoded by one gene. The gamma subunit also includes the skeletal muscle and hepatic isoforms, and the hepatic isoform is encoded by this gene. 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 9C, also known as autosomal liver glycogenosis. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]
Research Articles on PHKG2	**1.** These cases add to the current knowledge of clinical variability in patients with PHKG2 mutations. Long term studies, involving follow-up of these patients into adulthood, are needed
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