PHKG2 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PHKG2, Blocking Peptide
Full Product Name	PHKG2 Antibody (N-term) Blocking Peptide
Product Gene Name	PHKG2 blocking peptide
Product Synonym Names	Phosphorylase b kinase gamma catalytic chain; liver/testis isoform; PHK-gamma-LT; PHK-gamma-T; PSK-C3; Phosphorylase kinase subunit gamma-2; PHKG2
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human PHKG2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PHKG2 peptide (MBS9226698) is used for blocking the activity of PHKG2 antibody (MBS9210791)
Molecular Weight	43,158 Da
OMIM	172471
Related Product Information for PHKG2 blocking peptide	Catalytic subunit of the phosphorylase b kinase (PHK), which mediates the neural and hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. May regulate glycogeneolysis in the testis. In vitro, phosphorylates PYGM (By similarity).
Other Notes	Small volumes of PHKG2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PHKG2 purchase	MBS9226698 is a blocking peptide targeting PHKG2. Also known as PHKG2 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	125536
NCBI GeneID	5261
NCBI Accession #	P15735.1
UniProt Primary Accession #	P15735
UniProt Secondary Accession #	P11800; A8K0C7; B4DEB7; E9PEU3
UniProt Related Accession #	P15735
NCBI Official Full Name	Phosphorylase b kinase gamma catalytic chain, liver/testis isoform
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]
UniProt Comments for PHKG2	PHKG2: a Ca(2)/calmodulin-dependent protein kinase of the PHK family. Phosphorylase kinase is a polymer of 16 chains, four each of alpha, beta, gamma, and delta. Alpha and beta are regulatory chains, gamma is the catalytic chain, and delta is calmodulin. This isozyme may regulate glycogeneolysis in the testis. Protein type: Kinase, protein; Protein kinase, CAMK; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.19; CAMK group; PHK family Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cytosol; phosphorylase kinase complex Molecular Function: phosphorylase kinase activity; protein serine/threonine kinase activity; tau-protein kinase activity Biological Process: generation of precursor metabolites and energy; glycogen catabolic process; glycogen metabolic process; positive regulation of glycogen catabolic process Disease: Glycogen Storage Disease Ixc
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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