

Recombinant human PHKG1 protein ab101715

4 Images

Description

Product name	Recombinant human PHKG1 protein		
Biological activity	The specific activity of PHKG1 was determined to be 29 nmol/min/mg.		
Purity	> 75 % SDS-PAGE. Affinity purified.		
Expression system	Baculovirus infected insect cells		
Accession	<u>Q16816</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MTRDEALPDShSAQDFYENYEPKEILGRGVSSVVRRCIHK PTSQEYAVKV IDVTGGGSFSPEEVRELREATLKEVDILRKVSGHPNIIQLKD TYETNTFF FLVFDLMKRGELFDYLTEKVTLSEKETRKIMRALLEVICTLH KLNIVHRD LKPENILLDDNMNIKLTDGFGSCQLEPGERLREVCGTPSYL APEIIECSM NEDHPGYGKEVDMWSTGVIMYTLLAGSPPFWHRKQMLM LRMIMSGNYQFG SPEWDDYSDTVKDLVSRFLVVQPQNRYTAAEEALAHPPFQ QYLVEEVRHFS PRGKFKVIALTVLASVRIYYQYRRVKPVTREIIRDPYALRPL RRLIDAY AFRIYGHWWKKGQQQNRAALFENTPKAVLLSLAEEDY		
Predicted molecular weight	70 kDa including tags		
Amino acids	1 to 387		

Specifications

Our **Abpromise guarantee** covers the use of **ab101715** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	ab204885 (ZIP Kinase peptide substrate) can be utilized as a substrate for assessing kinase activity

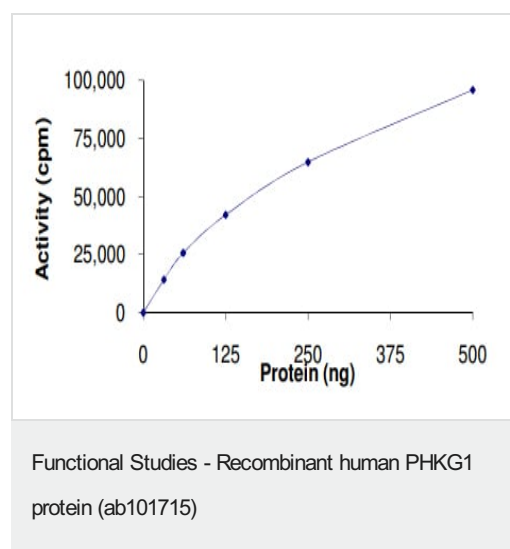
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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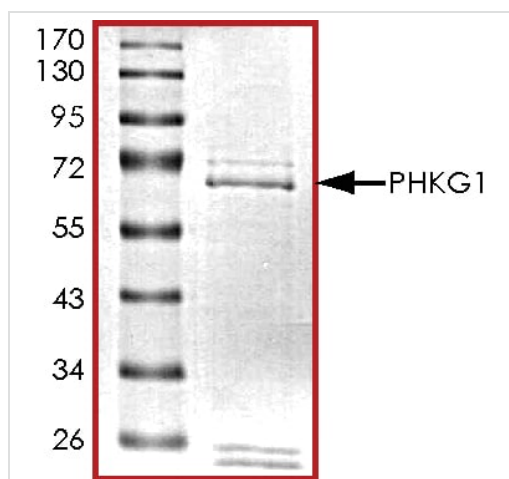
General Info

Function	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. In vitro, phosphorylates PYGM, TNNI3, MAPT/TAU, GAP43 and NRGN/RC3.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. Contains 1 protein kinase domain.
Domain	The two calmodulin-binding domains appear to act in concert to bind a single molecule of calmodulin and are pseudosubstrate/autoinhibitory domains.

Images

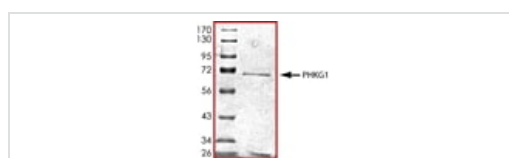


The specific activity of PHKG1 (ab101715) was determined to be 26 nmol/min/mg as per activity assay protocol



SDS PAGE analysis of ab101715

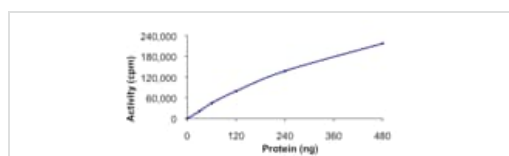
SDS-PAGE - Recombinant human PHKG1 protein
(ab101715)



The putity of ab101715 was determined to be 75% by densitometry.

Approximate MWt: 70kDa

SDS-PAGE - Recombinant human PHKG1 protein
(ab101715)



The specific activity of ab101715 was determined to be 29
nmol/min/mg.

Functional Studies - Recombinant human PHKG1
protein (ab101715)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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