abcam

Product datasheet

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.
Expression system	Baculovirus
Accession	Q16816
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MTRDEALPDSHSAQDFYENYEPKEILGRGVSSVVRRCIHKPTSQEYAVKV IDVTGGGSFSPEEVRELREATLKEVDILRKVSGHPNIIQLKDTYETNTFF FLVFDLMKRGELFDYLTEKVTLSEKETRKIMRALLEVICTLHKLNIVHRD LKPENILLDDNMNIKLTDFGFSCQLEPGERLREVCGTPSYLAPEIIECSM NEDHPGYGKEVDMWSTGVIMYTLLAGSPPFWHRKQMLMLRMIMSGNYQFG SPEWDDYSDTVKDLVSRFLVVQPQNRYTAEEALAHPFFQQYLVEEVRHFS PRGKFKVIALTVLASVRIYYQYRRVKPVTREIVIRDPYALRPLRRLIDAY AFRIYGHWVKKGQQQNRAALFENTPKAVLLSLAEEDY
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

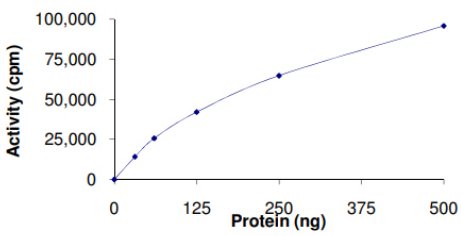
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. 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, 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

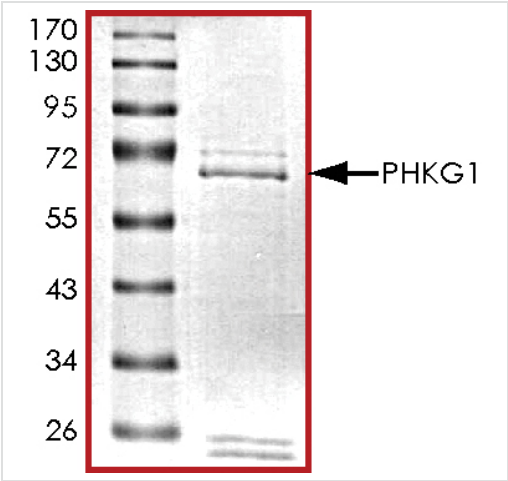
Function	Catalytic subunit of the phosphorylase b kinase (PHK), which mediates the neural and hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. In vitro, phosphorylates PYGM, TNNI3, MAPT/TAU, GAP43 and NRGN/RC3.
Sequence similarities	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



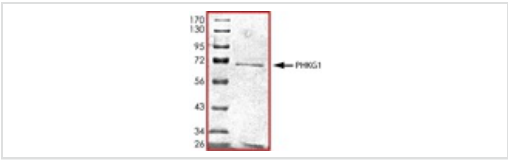
Functional Studies - Recombinant human PHKG1 protein (ab101715)

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



SDS-PAGE - Recombinant human PHKG1 protein (ab101715)

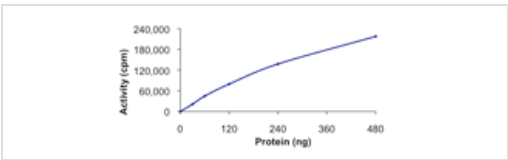
SDS PAGE analysis of ab101715



SDS-PAGE - Recombinant human PHKG1 protein (ab101715)

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

Approximate MWt: 70kDa



Functional Studies - Recombinant human PHKG1 protein (ab101715)

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

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