

PHKG2 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7233c

Specification

PHKG2 Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	P15735
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46442
Antigen Region	304-334

PHKG2 Antibody (Center) - Additional Information

Gene ID 5261

Other Names

Phosphorylase b kinase gamma catalytic chain, liver/testis isoform, PHK-gamma-LT, PHK-gamma-T, PSK-C3, Phosphorylase kinase subunit gamma-2, PHKG2

Target/Specificity

This PHKG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 304-334 amino acids from the Central region of human PHKG2.

Dilution

WB~~1:1000
IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PHKG2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PHKG2 Antibody (Center) - Protein Information

Name PHKG2

Function Catalytic subunit of the phosphorylase b kinase (PHK), which mediates the neural and

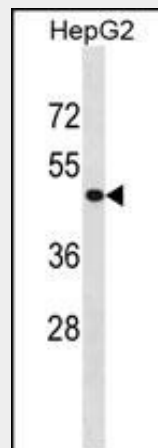
hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. May regulate glycogeneolysis in the testis. In vitro, phosphorylates PYGM (By similarity).

PHKG2 Antibody (Center) - Protocols

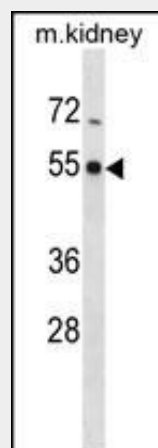
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

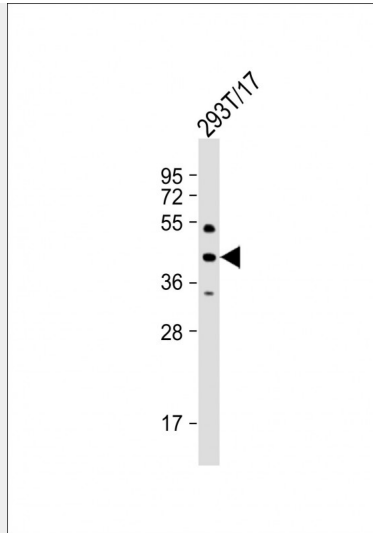
PHKG2 Antibody (Center) - Images



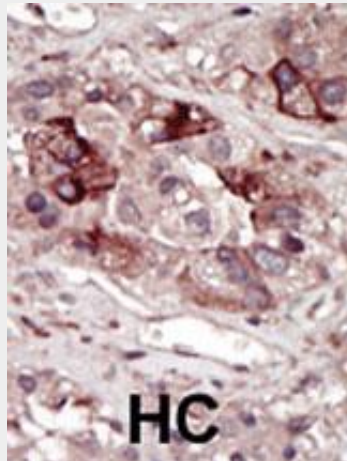
PHKG2 Antibody (G319) (Cat. #AP7233c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the PHKG2 antibody detected the PHKG2 protein (arrow).



PHKG2 Antibody (G319) (Cat. #AP7233c) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the PHKG2 antibody detected the PHKG2 protein (arrow).



Anti-PHKG2-G319 at 1:1000 dilution + 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

PHKG2 Antibody (Center) - Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.

PHKG2 Antibody (Center) - References

Burwinkel, B., et al., Hum. Mol. Genet. 7(1):149-154 (1998). Maichele, A.J., et al., Nat. Genet. 14(3):337-340 (1996). Whitmore, S.A., et al., Genomics 20(2):169-175 (1994). Hanks, S.K., Mol. Endocrinol. 3(1):110-116 (1989). Hanks, S.K., Proc. Natl. Acad. Sci. U.S.A. 84(2):388-392 (1987).