Product Name: PHKG1 Rabbit Polyclonal Antibody
Catalog #: APRab16074

Summary

Production Name	PHKG1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PHKG1
Alternative Names	PHKG1; PHKG; Phosphorylase b kinase gamma catalytic chain; skeletal muscle isoform; Phosphorylase kinase subunit gamma-1
Gene ID	5260.0
SwissProt ID	Q16816.The antiserum was produced against synthesized peptide derived from human PHKG1. AA range:241-290

Application

Dilution Ratio	WB 1:500-2000
Molecular Weight	45kD

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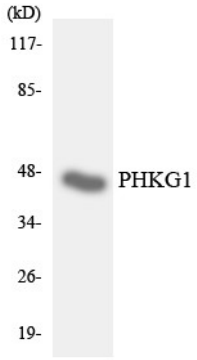
Background

This gene is a member of the Ser/Thr protein kinase family and encodes a protein with one protein kinase domain and two calmodulin-binding domains. This protein is the catalytic member of a 16 subunit protein kinase complex which contains equimolar ratios of 4 subunit types. The complex is a crucial glycogenolytic regulatory enzyme. This gene has two pseudogenes at chromosome 7q11.21 and one at chromosome 11p11.12. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012],catalytic activity:2 ATP + phosphorylase b = 2 ADP + phosphorylase a.,domain:The two calmodulin-binding domains appear to act in concert to bind a single molecule of calmodulin and are pseudosubstrate/autoinhibitory domains.,function:Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,subunit: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.,

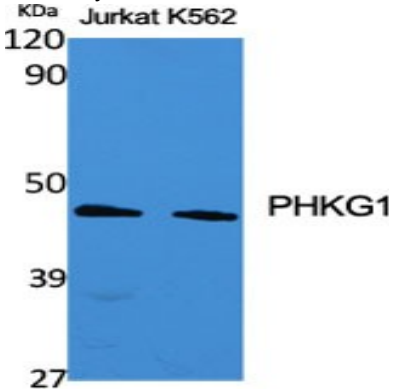
Research Area

Calcium;Insulin_Receptor;

Image Data



Western blot analysis of the lysates from HUVECcells using PHKG1 antibody.



Western Blot analysis of various cells using PHKG1 Polyclonal Antibody

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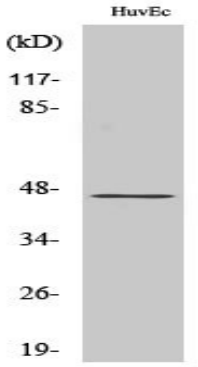

Western Blot analysis of HepG2 cells using PHKG1 Polyclonal Antibody

Note

For research use only.