Best Tools for immunology Research

# PHKG1 Polyclonal Antibody

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|---|---|
| **Catalog No :** | YT3702 |
| **Reactivity :** | Human;Rat;Mouse; |
| **Applications :** | WB;IHC |
| **Target :** | PHKG1 |
| **Fields :** | >>Calcium signaling pathway;>>Insulin signaling pathway;>>Glucagon signaling pathway |
| **Gene Name :** | PHKG1 |
| **Protein Name :** | Phosphorylase b kinase gamma catalytic chain skeletal muscle isoform |
| **Human Gene Id :** | 5260 |
| **Human Swiss Prot No :** | Q16816 |
| **Mouse Swiss Prot No :** | P07934 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human PHKG1. AA range:241-290 |
| **Specificity :** | PHKG1 Polyclonal Antibody detects endogenous levels of PHKG1 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500-2000;IHC 1:50-300 |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |

**Observed Band :** 45kD

**Cell Pathway :** Calcium;Insulin_Receptor;

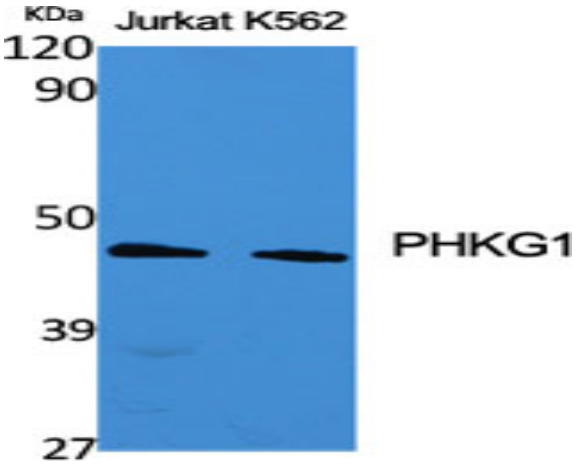
**Background :** This gene is a member of the Ser/Thr protein kinase family and encodes a protein with one protein kinase domain and two calmodulin-binding domains. This protein is the catalytic member of a 16 subunit protein kinase complex which contains equimolar ratios of 4 subunit types. The complex 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],

**Function :** 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.,

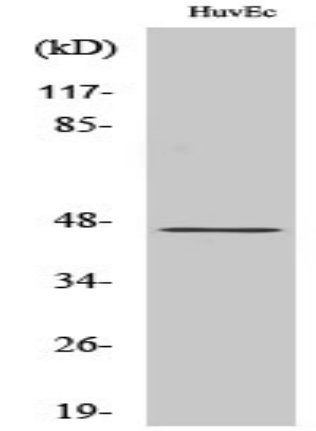
**Subcellular Location :** cytosol,phosphorylase kinase complex,

**Expression :** PCR rescued clones,Salivary gland,Skeletal muscle,

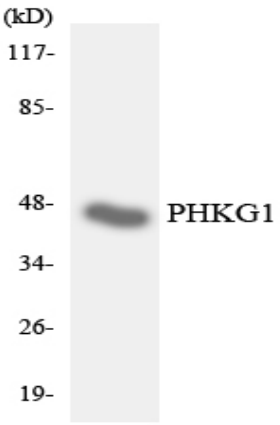
## Products Images



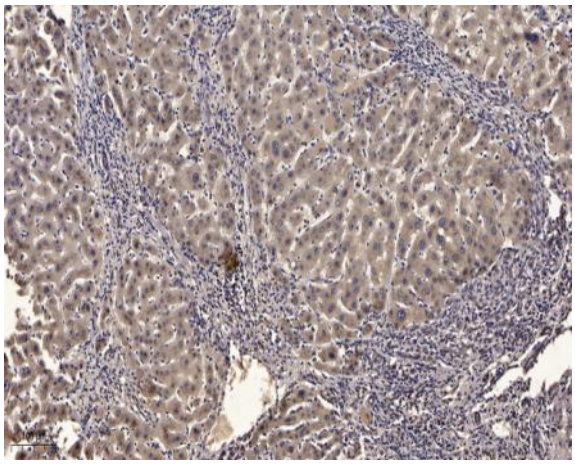

Western Blot analysis of various cells using PHKG1 Polyclonal Antibody




Western Blot analysis of HepG2 cells using PHKG1 Polyclonal Antibody




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



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).