**产品名称：GK1/3 Rabbit Polyclonal Antibody**
**产品货号：APRab11453**

## 产品概述（Summary）

| | |
|---|---|
| **产品名称（Production Name）** | GK1/3 Rabbit Polyclonal Antibody |
| **描述（Description）** | Rabbit polyclonal Antibody |
| **宿主（Host）** | Rabbit |
| **应用（Application）** | WB,IHC,ICC/IF,ELISA |
| **种属反应性（Reactivity）** | Human,Rat,Mouse |

## 产品性能（Performance）

| | |
|---|---|
| **偶联物（Conjugation）** | Unconjugated |
| **修饰（Modification）** | Unmodified |
| **同种型（Isotype）** | IgG |
| **克隆（Clonality）** | Polyclonal |
| **形式（Form）** | Liquid |
| **存放说明（Storage）** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **储存溶液（Buffer）** | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| **纯化方式（Purification）** | Affinity purification |

## 免疫原信息（Immunogen）

| | |
|---|---|
| **基因名（Gene Name）** | GK/GK3P |
| **别名（Alternative Names）** | GK; Glycerol kinase; GK; Glycerokinase; ATP:glycerol 3-phosphotransferase; GK3P; GKP3; GKTB; Putative glycerol kinase 3; GK 3; Glycerokinase 3; ATP:glycerol 3-phosphotransferase 3; Glycerol kinase; testis specific 1 |
| **基因 ID（Gene ID）** | 2713.0 |
| **蛋白 ID（SwissProt ID）** | P32189/Q14409.The antiserum was produced against synthesized peptide derived from human GK3. AA range:21-70 |

## 产品应用（Application）

| | |
|---|---|
| **稀释比（Dilution Ratio）** | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000 |
| **蛋白分子量（Molecular Weight）** | 61kDa |

**产品名称：GK1/3 Rabbit Polyclonal Antibody**
**产品货号：APRab11453**

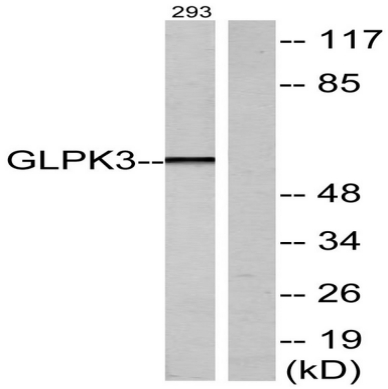
## 研究背景（Background）

The protein encoded by this gene belongs to the FGGY kinase family. This protein is a key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol by ATP, yielding ADP and glycerol-3-phosphate. Mutations in this gene are associated with glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011],catalytic activity:ATP + glycerol = ADP + sn-glycerol 3-phosphate.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,disease:Defects in GK are the cause of GK deficiency (GKD) [MIM:307030]. This disease can be either symptomatic with episodic metabolic and CNS decompensation or asymptomatic with hyperglycerolemia and hyperglyceroluria only.,function:Key enzyme in the regulation of glycerol uptake and metabolism.,pathway:Polyol metabolism; glycerol degradation via glycerol kinase pathway; sn-glycerol 3-phosphate from glycerol: step 1/1.,similarity:Belongs to the FGGY kinase family.,subcellular location:In sperm and fetal tissues, the majority of the enzyme is bound to mitochondria, but in adult tissues, such as liver found in the cytoplasm.,tissue specificity:Highly expressed in the liver, kidney and testis. Isoforms 2 and 3 are expressed specifically in testis and fetal liver, but not in the adult liver.,

## 研究领域（Research Area）

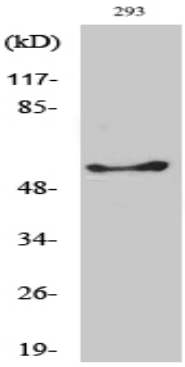
Glycerolipid metabolism;PPAR;

## 图片（Image Data）




Western blot analysis of lysates from 293 cells, using GK3 Antibody. The lane on the right is blocked with the synthesized peptide.

**产品名称：GK1/3 Rabbit Polyclonal Antibody**
**产品货号：APRab11453**




Western Blot analysis of various cells using GK1/3 Polyclonal Antibody

## 注意事项（Note）

For research use only .