

产品名称: GK1 Rabbit Polyclonal Antibody
产品货号: APRab11452



产品概述 (Summary)

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

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
别名 (Alternative Names)	GK; Glycerol kinase; GK; Glycerokinase; ATP:glycerol 3-phosphotransferase
基因 ID (Gene ID)	2710.0
蛋白 ID (SwissProt ID)	P32189.The antiserum was produced against synthesized peptide derived from human GK. AA range:461-510

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	57kDa

研究背景 (Background)

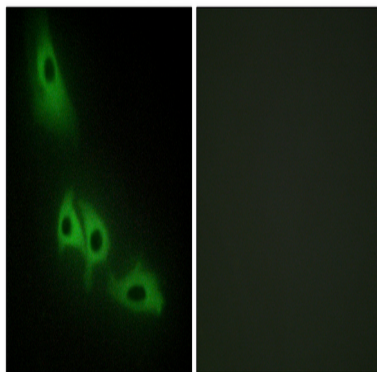
产品名称: GK1 Rabbit Polyclonal Antibody
产品货号: APRab11452

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)

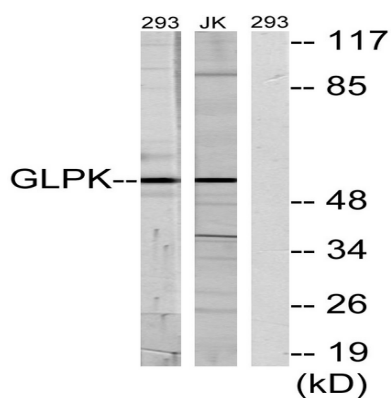
Glycerolipid metabolism;PPAR;

图片 (Image Data)

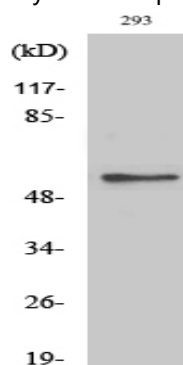


Immunofluorescence analysis of HeLa cells, using GK Antibody. The picture on the right is blocked with the synthesized peptide.

产品名称: GK1 Rabbit Polyclonal Antibody
产品货号: APRab11452



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



Western Blot analysis of various cells using GK1 Polyclonal Antibody diluted at 1: 2000

注意事项 (Note)

For research use only .