

**Anti-Glycerol Kinase 1 Antibody**  
**Catalog # AP53911****Specification**

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**Anti-Glycerol Kinase 1 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P32189</a>
Other Accession	<a href="#">Q14409</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61245

**Anti-Glycerol Kinase 1 Antibody - Additional Information****Gene ID** 2710**Other 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

**Target/Specificity**

Recognizes endogenous levels of Glycerol Kinase 1 protein.

**Dilution**

WB~~1/500 - 1/1000

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**Anti-Glycerol Kinase 1 Antibody - Protein Information****Name** GK ([HGNC:4289](#))**Function**

Kinase that plays a key role in glycerol metabolism, catalyzing its phosphorylation to produce sn-glycerol 3-phosphate. Sn- glycerol 3-phosphate is a crucial intermediate in various metabolic pathways, such as the synthesis of glycerolipids and triglycerides, glycogenesis, glycolysis and gluconeogenesis.

**Cellular Location**

Mitochondrion outer membrane; Single-pass membrane protein. Nucleus. Cytoplasm, cytosol.

Note=Glycerol kinase activity is more cytosolic in some tissues. It probably represents the expression of isoforms lacking a transmembrane domain [Isoform 4]: Cytoplasm, cytosol. Note=In adult tissues, such as liver the glycerol kinase activity is more cytosolic. It probably represents the expression of this isoform which lacks a transmembrane domain

#### **Tissue Location**

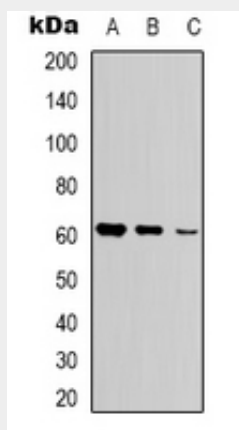
[Isoform 2]: Widely expressed in fetal and adult tissues. [Isoform 4]: The sole isoform expressed in adult liver and kidney.

#### **Anti-Glycerol Kinase 1 Antibody - Protocols**

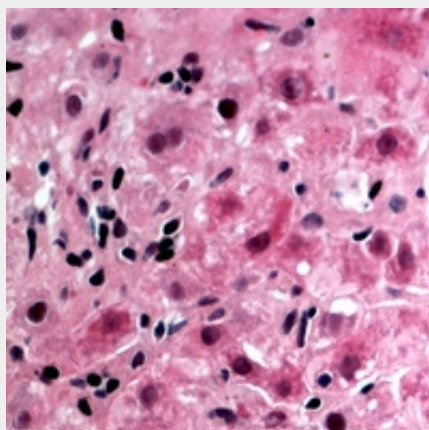
Provided below are standard protocols that you may find useful for product applications.

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

#### **Anti-Glycerol Kinase 1 Antibody - Images**



Western blot analysis of Glycerol Kinase 1 expression in Jurkat (A), HepG2 (B), HEK293T (C) whole cell lysates.



Immunohistochemical analysis of Glycerol Kinase 1 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. AEC was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Anti-Glycerol Kinase 1 Antibody - Background**

Rabbit polyclonal antibody to Glycerol Kinase 1