

# Glycerol Kinase 1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51676

## Product Information

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

## Additional Information

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<b>Gene ID</b>	2710
<b>Other Names</b>	Glycerol kinase, GK, Glycerokinase, ATP:glycerol 3-phosphotransferase, GK
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Glycerol Kinase 1. The exact sequence is proprietary.
<b>Dilution</b>	WB~~1:1000 ICC~~N/A
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	GK ( <a href="#">HGNC:4289</a> )
<b>Function</b>	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.
<b>Cellular Location</b>	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
<b>Tissue Location</b>	[Isoform 2]: Widely expressed in fetal and adult tissues. [Isoform 4]: The sole isoform expressed in adult liver and kidney.

## Background

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Key enzyme in the regulation of glycerol uptake and metabolism.

## References

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Guo W.,et al.Nat. Genet. 4:367-372(1993).  
Sargent C.A.,et al.Hum. Mol. Genet. 3:1317-1324(1994).  
Sargent C.A.,et al.J. Med. Genet. 37:434-441(2000).  
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