

Glycerol Kinase 1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51676

Specification

Glycerol Kinase 1 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	P32189
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57 KDa

Glycerol Kinase 1 Antibody - Additional Information

Gene ID 2710

Other Names

Glycerol kinase, GK, Glycerokinase, ATP:glycerol 3-phosphotransferase, GK

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

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

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.

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](#)

Glycerol Kinase 1 Antibody - Images

Glycerol Kinase 1 Antibody - Background

Key enzyme in the regulation of glycerol uptake and metabolism.

Glycerol Kinase 1 Antibody - References

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).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Ross M.T., et al. Nature 434:325-337(2005).