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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

Dilution
WB~~1:1000
ICC~~N/A
E~~N/A

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 Cytomety
- 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).
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