

Glycerol Kinase 1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51676

Product Information

Application	WB, ICC
Primary Accession	P32189
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61245

Additional Information

Gene ID	2710
Other Names	Glycerol kinase, GK, Glycerokinase, ATP:glycerol 3-phosphotransferase, GK
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Glycerol Kinase 1. The exact sequence is proprietary.
Dilution	WB~~1:1000 ICC~~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

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.

Background

Key enzyme in the regulation of glycerol uptake and metabolism.

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).

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