

GK / Glycerol Kinase Antibody (aa461-510)
Rabbit Polyclonal Antibody
Catalog # ALS15757**Specification**

GK / Glycerol Kinase Antibody (aa461-510) - Product Information

Application	IHC, IF, WB
Primary Accession	P32189
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61kDa KDa

GK / Glycerol Kinase Antibody (aa461-510) - Additional Information**Gene ID** 2710**Other Names**

Glycerol kinase, GK, Glycerokinase, 2.7.1.30, ATP:glycerol 3-phosphotransferase, GK

Target/Specificity

GK Antibody detects endogenous levels of total GK protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

GK / Glycerol Kinase Antibody (aa461-510) is for research use only and not for use in diagnostic or therapeutic procedures.

GK / Glycerol Kinase Antibody (aa461-510) - 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.

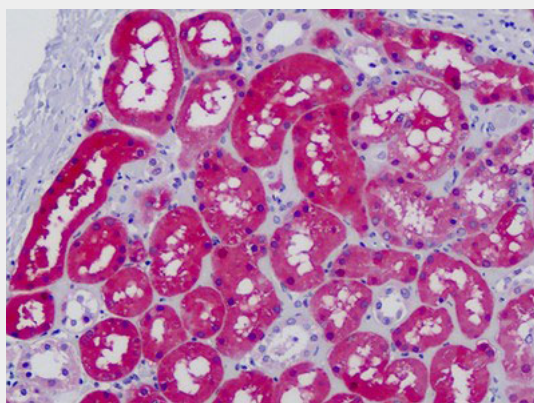
Volume

50 µl

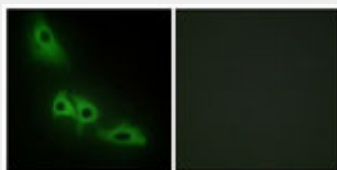
GK / Glycerol Kinase Antibody (aa461-510) - Protocols

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

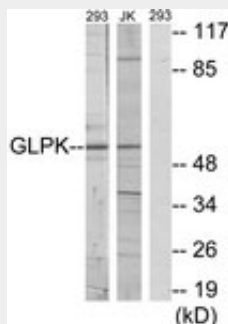
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GK / Glycerol Kinase Antibody (aa461-510) - Images

Human Kidney: Formalin-Fixed Paraffin-Embedded (FFPE)



Immunofluorescence of HeLa cells, using GK Antibody.



Western blot of extracts from 293/Jurkat cells, using GK Antibody.

GK / Glycerol Kinase Antibody (aa461-510) - Background

Key enzyme in the regulation of glycerol uptake and metabolism.

GK / Glycerol Kinase Antibody (aa461-510) - 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).