

Glycerol Kinase 2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51231**Specification**

Glycerol Kinase 2 Antibody - Product Information

Application	WB, IP, ICC, E
Primary Accession	Q14410
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61 KDa

Glycerol Kinase 2 Antibody - Additional Information**Gene ID** 2712**Other Names**

Glycerol kinase 2, GK 2, Glycerokinase 2, ATP:glycerol 3-phosphotransferase 2, Glycerol kinase, testis specific 2, GK2, GKP2, GKTA

Dilution

WB~~~1:1000
IP~~~N/A
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 2 Antibody - Protein Information**Name** GK2**Synonyms** GKP2, GKTA**Function**

Key enzyme in the regulation of glycerol uptake and metabolism. Essential for male fertility and sperm mitochondrial sheath formation (By similarity). Required for proper arrangement of crescent- like mitochondria to form the mitochondrial sheath during spermatogenesis (By similarity). Can induce mitochondrial clustering through interactions with PLD6 and up-regulation of phosphatidic acid synthesis in the mitochondria (PubMed:28852571).

Cellular Location

Mitochondrion outer membrane {ECO:0000250|UniProtKB:Q9WU65}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:Q9WU65}. Cytoplasm. Note=In sperm the majority of the enzyme is bound to mitochondria {ECO:0000250|UniProtKB:Q9WU65}

Tissue Location

Testis-specific (PubMed:33536340). Expressed in the midpiece of spermatozoa (PubMed:28852571)

Glycerol Kinase 2 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 2 Antibody - Images**Glycerol Kinase 2 Antibody - Background**

Key enzyme in the regulation of glycerol uptake and metabolism (By similarity).

Glycerol Kinase 2 Antibody - References

Sargent C.A.,et al.Hum. Mol. Genet. 3:1317-1324(1994).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.