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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

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 Cytomety
- 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.