

# Glycerol Kinase 2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51231

## Product Information

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Application	WB, IP, ICC
Primary Accession	<a href="#">Q14410</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60594

## Additional Information

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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
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

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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: <a href="#">28852571</a> ).
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)

## Background

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

## References

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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.

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