

**GK2 Polyclonal Antibody**  
Catalog # AP70095**Specification****GK2 Polyclonal Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q14410</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>

**GK2 Polyclonal Antibody - Additional Information****Gene ID** 2712**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**GK2 Polyclonal 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:<a href="http://www.uniprot.org/citations/28852571" target="\_blank">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

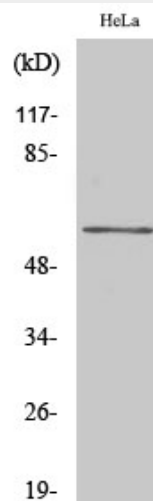
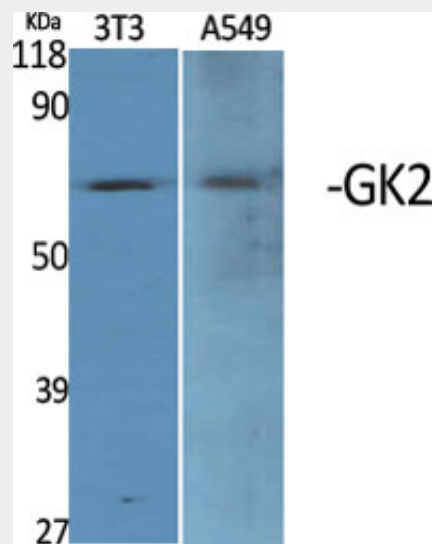
Testis-specific (PubMed:33536340). Expressed in the midpiece of spermatozoa (PubMed:28852571)

### GK2 Polyclonal 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](#)

### GK2 Polyclonal Antibody - Images



## **GK2 Polyclonal Antibody - Background**

Key enzyme in the regulation of glycerol uptake and metabolism.