

GK2 Rabbit pAb

CatalogNo: YT1912

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 61kD (Observed)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:20000

Not yet tested in other applications.

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

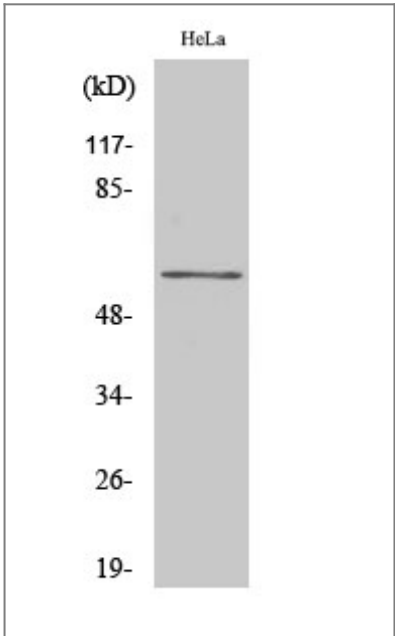
Immunogen The antiserum was produced against synthesized peptide derived from human GK2. AA range: 281-330

Specificity GK2 Polyclonal Antibody detects endogenous levels of GK2 protein.

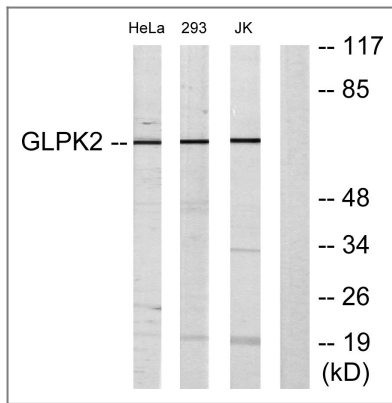
| Target Information

Gene name	GK2		
Protein Name	Glycerol kinase 2		
	Organism	Gene ID	UniProt ID
	Human	2712 ;	Q14410 ;
	Mouse		Q9WU65 ;
Cellular Localization	Mitochondrion outer membrane ; Single-pass type IV membrane protein . Cytoplasm . In sperm the majority of the enzyme is bound to mitochondria. .		
Tissue specificity	Testis-specific (PubMed:33536340). Expressed in the midpiece of spermatozoa (PubMed:28852571).		
Function	Catalytic activity:ATP + glycerol = ADP + sn-glycerol 3-phosphate.,Function:Key enzyme in the regulation of glycerol uptake and metabolism.,pathway:Polyol metabolism; glycerol degradation via glycerol kinase pathway; sn-glycerol 3-phosphate from glycerol: step 1/1.,similarity:Belongs to the FGGY kinase family.,subcellular location:In sperm the majority of the enzyme is bound to mitochondria.,		

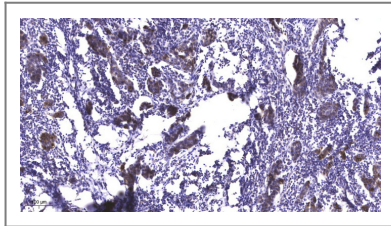
| Validation Data



Western Blot analysis of Jurkat cells using GK2 Polyclonal Antibody



Western blot analysis of lysates from HeLa, 293, and Jurkat cells, using GK2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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GK2 Rabbit pAb

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