



# GK2 Polyclonal Antibody

<b>Catalog No</b>	BYab-14758
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	GK2
<b>Protein Name</b>	Glycerol kinase 2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human GK2. AA range:281-330
<b>Specificity</b>	GK2 Polyclonal Antibody detects endogenous levels of GK2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	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.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	GK2; GKP2; GKTA; Glycerol kinase 2; GK 2; Glycerokinase 2; ATP:glycerol 3-phosphotransferase 2; Glycerol kinase; testis specific 2
<b>Observed Band</b>	61kD
<b>Cell Pathway</b>	Mitochondrion outer membrane ; Single-pass type IV membrane protein . Cytoplasm . In sperm the majority of the enzyme is bound to mitochondria. .
<b>Tissue Specificity</b>	Testis-specific (PubMed:33536340). Expressed in the midpiece of spermatozoa (PubMed:28852571).
<b>Function</b>	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.,
<b>Background</b>	catalytic activity:ATP + glycerol = ADP + sn-glycerol 3-phosphate.,function:Key enzyme in the regulation of glycerol uptake and metabolism.,pathway:Polyol

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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.,

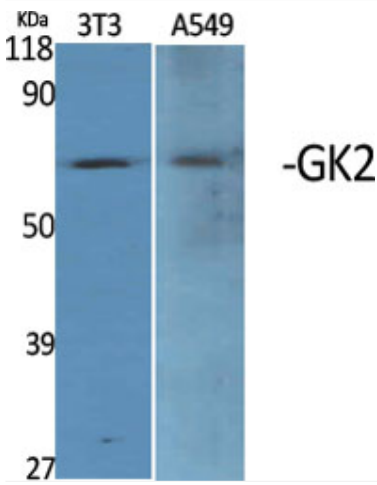
**matters needing attention**

Avoid repeated freezing and thawing!

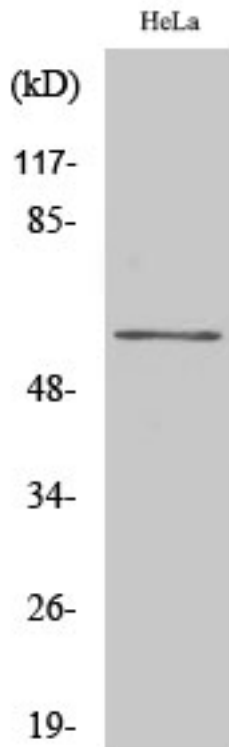
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

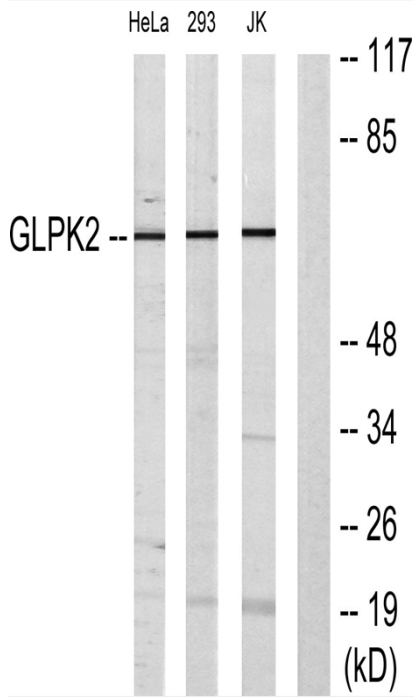


Western Blot analysis of various cells using GK2 Polyclonal Antibody

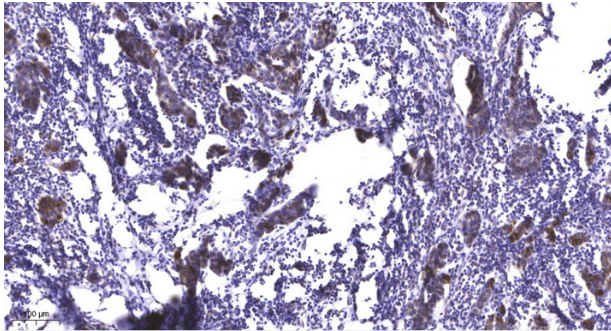


Western Blot analysis of Jurkat cells using GK2 Polyclonal Antibody

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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).