



GK2 Polyclonal Antibody

Catalog No	YP-Ab-14758
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	GK2
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.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	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.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GK 2;GK2;GKP2;GKTA;Glycerokinase 2;glycerol kinase 2;ATP:glycerol 3-phosphotransferase 2;Glycerol kinase;testis specific 2
Observed Band	61kD
Calculated Molecular Weight	61kD
Cell Pathway	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.,



Background

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.,

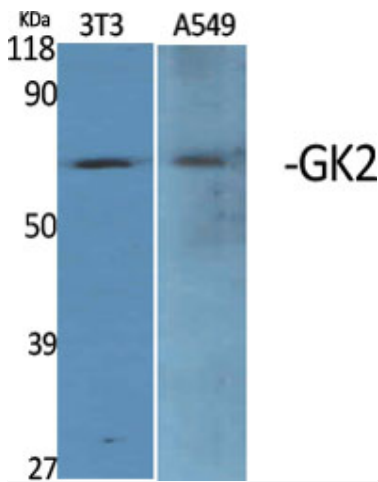
matters needing attention

Avoid repeated freezing and thawing!

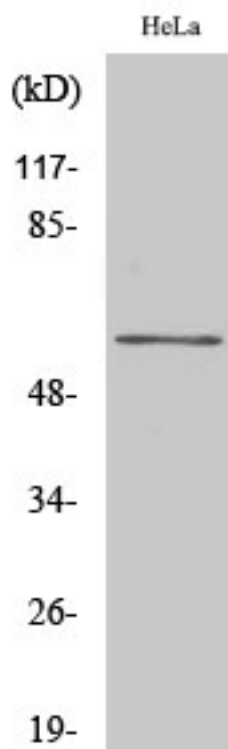
Usage suggestions

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

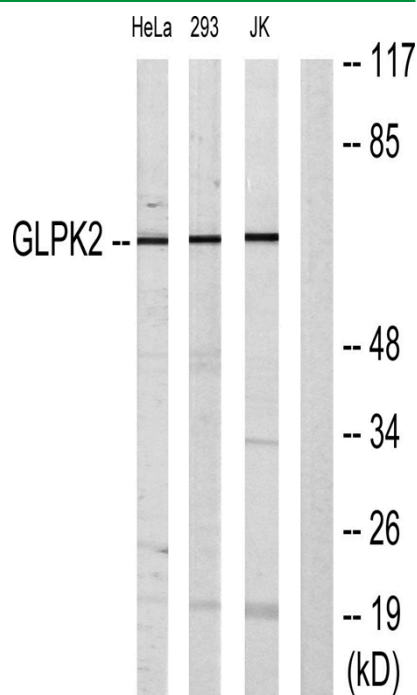
Products Images



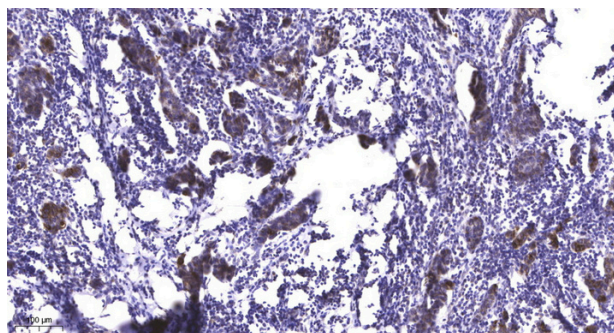
Western Blot analysis of various cells using GK2 Polyclonal Antibody



Western Blot analysis of Jurkat cells using GK2 Polyclonal Antibody



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).