



# GLSK rabbit pAb

<b>Catalog No</b>	YP-Ab-08891
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse; Rat
<b>Applications</b>	WB
<b>Gene Name</b>	GLS GLS1 KIAA0838
<b>Protein Name</b>	GLSK
<b>Immunogen</b>	Synthesized peptide derived from human GLSK AA range: 162-212
<b>Specificity</b>	This antibody detects endogenous levels of GLSK at Human/Mouse/Rat
<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 serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1: 500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Calculated Molecular Weight</b>	74kD
<b>Cell Pathway</b>	[Isoform 1]: Mitochondrion . Cytoplasm, cytosol . The 74-kDa cytosolic precursor is translocated into the mitochondria and processed via a 72-kDa intermediate to yield the mature 68- and 65-kDa subunits. .; [Isoform 3]: Mitochondrion .; [Glutaminase kidney isoform, mitochondrial 68 kDa chain]: Mitochondrion matrix . Produced by the proteolytic processing of the 74-kDa cytosolic precursor. .; [Glutaminase kidney isoform, mitochondrial 65 kDa chain]: Mitochondrion matrix . Produced by the proteolytic processing of the 74-kDa cytosolic precursor. .
<b>Tissue Specificity</b>	Isoform 1 and isoform 3 are detected in brain cortex. Isoform 3 is highly expressed in astrocytoma, ganglioglioma and ependymoma. Isoform 1 is highly expressed in brain and kidney, but not detected in liver. Isoform 3 is highly expressed in heart and pancreas, detected at lower levels in placenta, lung, pancreas and kidney, but is not detected in liver. Isoform 2 is expressed in cardiac and skeletal muscle.
<b>Function</b>	catalytic activity:L-glutamine + H(2)O = L-glutamate + NH(3).,function:Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine.,similarity:Belongs to the glutaminase family.,similarity:Contains 1 ANK repeat.,tissue specificity:KGA is expressed predominantly in brain and kidney but not in liver, GAC is expressed principally in cardiac muscle and pancreas but not in liver or brain, and GAM is expressed solely in cardiac and skeletal muscle.,



## Background

This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012],

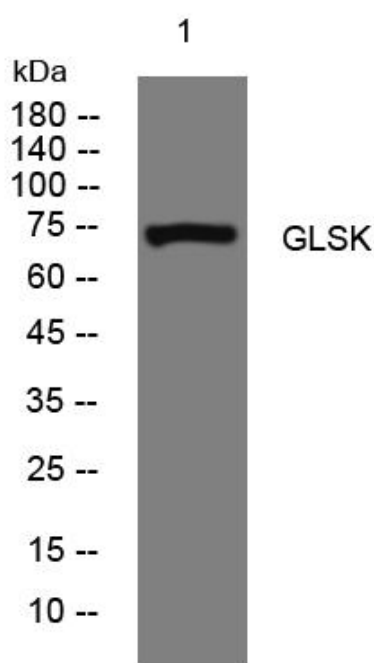
## matters needing attention

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 lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night