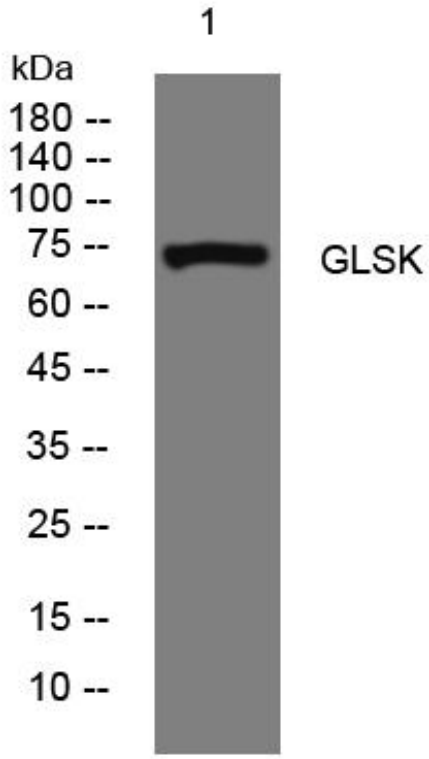
GLSK mouse mAb

Catalog No	BYmab-08891
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	GLS GLS1 KIAA0838
Protein Name	GLSK
Immunogen	Synthesized peptide derived from human GLSK AA range: 162-212
Specificity	This antibody detects endogenous levels of GLSK at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	[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. .
Tissue Specificity	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.
Function	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 various cells using GLSK mouse mAb