



BCKDK Monoclonal Antibody

Catalog No	YP-mAb-02508
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	BCKDK
Immunogen	The antiserum was produced against synthesized peptide derived from human BCKD . AA range:11-60
Specificity	BCKDK Monoclonal Antibody detects endogenous levels of BCKDK protein.
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 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase;mitochondrial; BCKDH kinase;BCKDHKIN;BDK;Branched-chain alpha-ketoacid dehydrogenase kinase;BCKDK;[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase mitochondrial;BCKD-kinase
Observed Band	46kD
Calculated Molecular Weight	46kD
Cell Pathway	Mitochondrion matrix. Mitochondrion .
Tissue Specificity	Ubiquitous.
Function	catalytic activity:ATP + [3-methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] = ADP + [3-methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] phosphate.,function:Catalyzes the phosphorylation and inactivation of the branched-chain alpha-ketoacid dehydrogenase complex, the key regulatory enzyme of the valine, leucine and isoleucine catabolic pathways. Key enzyme that regulate the activity state of the BCKD complex., PTM:Autophosphorylated.,similarity:Belongs to the PDK/BCKDK protein kinase family.,similarity:Contains 1 histidine kinase domain.,subunit:Monomer.,tissue specificity:Ubiquitous.,



Background

The branched-chain alpha-ketoacid dehydrogenase complex (BCKD) is an important regulator of the valine, leucine, and isoleucine catabolic pathways. The protein encoded by this gene is found in the mitochondrion, where it phosphorylates and inactivates BCKD. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]

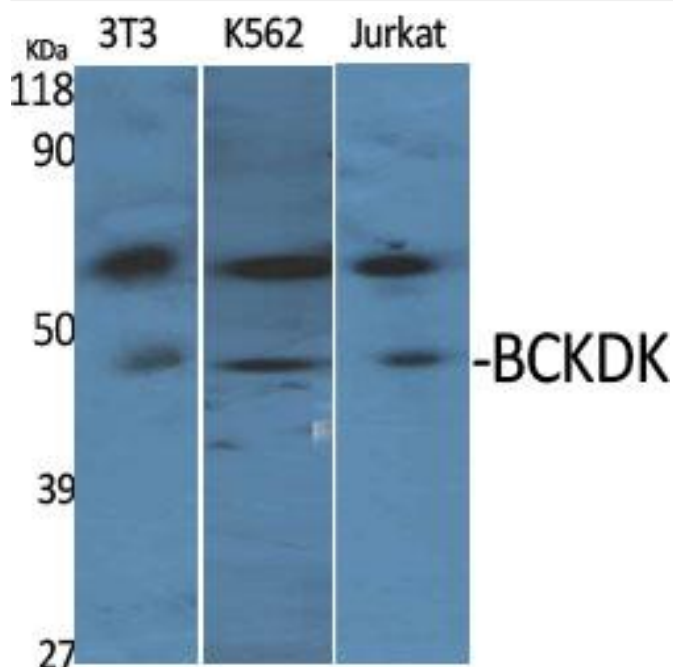
matters needing attention

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 BCKDK Monoclonal Antibody