

Product Name: KO-Validated BCKDK Rabbit Polyclonal Antibody**Catalog #: KVA00161**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit pAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 46.4kDa

Antigen Information

Gene Name	BCKDK
Alternative Names	BCKDK; Branched Chain Keto Acid Dehydrogenase Kinase; [3-Methyl-2-Oxobutanoate Dehydrogenase [Lipoamide]] Kinase, Mitochondrial; Branched-Chain Alpha-Ketoacid Dehydrogenase Kinase; BCKDH Kinase; EC 2.7.11.4; BCKDHKIN; BDK; 3-Methyl-2-Oxobutanoate Dehydrogenase [Lipoamide] Kinase, Mitochondrial; Branched Chain Alpha-Ketoacid Dehydrogenase Kinase; Branched Chain Ketoacid Dehydrogenase Kinase; BCKD-Kinase; EC 2.7.11.1; EC 2.7.11; BCKDKD
Gene ID	10295.0
SwissProt ID	O14874
Immunogen	A synthesized peptide derived from human BCKDK

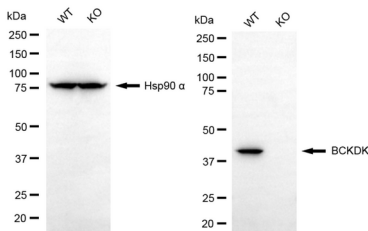
Background

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]

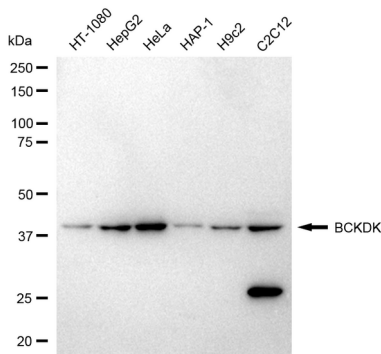
Research Area

Tags & Cell Markers, Signal Transduction, Metabolism

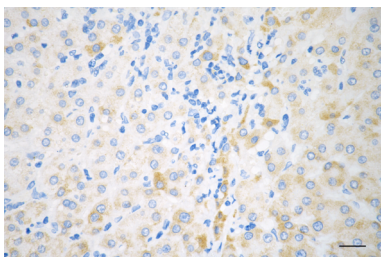
Image Data



Western blotting analysis using BCKDK antibody (KVA00161). BCKDK expression in wild type (WT) and BCKDK knockout (KO) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with BCKDK antibody (KVA00161, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using BCKDK antibody (KVA00161). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with BCKDK antibody (KVA00161, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using BCKDK antibody (KVA00161, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.