

Datasheet for ABIN391130  
**anti-BCKDK antibody (C-Term)**

## 2 Images

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## Overview

Quantity:	400 µL
Target:	BCKDK
Binding Specificity:	AA 325-356, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This BCKDK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 325-356 amino acids from the C-terminal region of human BCKDK.
Clone:	RB5257
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	BCKDK
Alternative Name:	BCKDK ( <a href="#">BCKDK Products</a> )

## Target Details

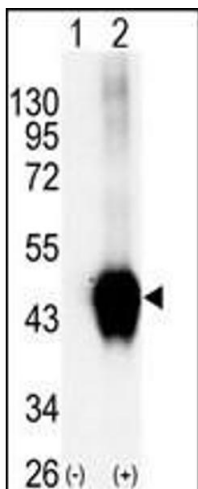
Background:	The second major step in the catabolism of the branched-chain amino acids, isoleucine, leucine, and valine, is irreversibly catalyzed by the branched-chain alpha-keto acid dehydrogenase complex (BCKD), an inner-mitochondrial enzyme complex composed of 3 catalytic components: a branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3). The complex also contains 2 enzymes that regulated the state of activity of the BCKD complex: a kinase (BCKDK), and a phosphorylase. The ubiquitously expressed kinase contains 1 histidine kinase domain. Maple syrup urine disease (MSUD) is a pathology secondary to an enzyme defect in the catabolic pathway of leucine, isoleucine, and valine. Accumulation of these amino acids and their corresponding keto acids results in encephalopathy and progressive neurodegeneration in infants not treated for MSUD.
Molecular Weight:	46360
Gene ID:	10295
NCBI Accession:	<a href="#">NP_001116429</a> , <a href="#">NP_005872</a>
UniProt:	<a href="#">O14874</a>
Pathways:	<a href="#">SARS-CoV-2 Protein Interactome</a>

## Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only

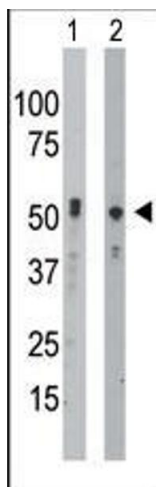
## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



#### Western Blotting

**Image 1.** Western blot analysis of BCKDK (arrow) using rabbit polyclonal BCKDK Antibody (C-term ) (R).293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the BCKDK gene (Lane 2) (Origene Technologies).



#### Western Blotting

**Image 2.** The anti-BCKDK Pab (ABIN391130 and ABIN2841253) is used in Western blot to detect BCKDK in mouse intestine tissue lysate (Lane 1) and HeLa cell lysate (Lane 2).