Datasheet for ABIN391089

anti-Ketohexokinase antibody (C-Term)

2 Images | 2 Publications

Go to Product page

Overview

Quantity:	400 µL
Target:	Ketohexokinase (KHK)
Binding Specificity:	AA 251-281, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Ketohexokinase antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This Ketohexokinase (KHK) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 251-281 amino acids from the C-terminal region of human Ketohexokinase (KHK).
Clone:	RB05412
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Ketohexokinase (KHK)
Abstract:	KHK Products

Target Details

Background:	Ketohexokinase (KHK), or fructokinase, catalyzes conversion of fructose to fructose-1-phosphate. Splice variant 1 is the highly active form found in liver, renal cortex, and small intestine, while splice variant 2 is the lower activity form found in most other tissues. KHK, like glucokinase (GCK) and glucokinase regulator (GCKR), is present in both liver and pancreatic islets. The inhibition of GCK by GCKR is blocked by binding of fructose-1-phosphate to GCKR. The chromosomal proximity of the metabolically connected GCKR and KHK genes has a genetic linkage in type 2 diabetes. Fructosuria, or hepatic fructokinase deficiency, is a benign, asymptomatic defect of intermediary metabolism associated with heterozygosity for G50R and A43T mutations in KHK.
Molecular Weight:	32523
Gene ID:	3795
NCBI Accession:	NP_000212, NP_006479
UniProt:	P50053

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

Publications

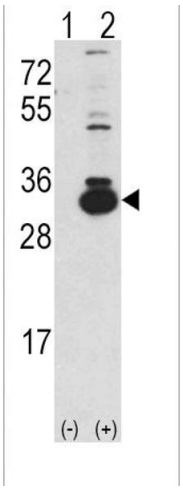
Product cited in:	Springer, Lindbloom-Hawley, Schermerhorn: "Tissue expression of ketohexokinase in cats." in:

Publications

Research in veterinary science, Vol. 87, Issue 1, pp. 115-7, (2009) (PubMed).

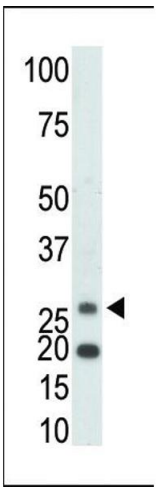
Diggle, Shires, Leitch, Brooke, Carr, Markham, Hayward, Asipu, Bonthron: "Ketohexokinase: expression and localization of the principal fructose-metabolizing enzyme." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 57, Issue 8, pp. 763-74, (2009) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of KHK (arrow) using rabbit polyclonal Ketohexokinase (KHK) Antibody (C-term) (ABIN391089 and ABIN2841230). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the KHK gene (Lane 2) (Origene Technologies).



Western Blotting

Image 2. The anti-KHK Pab (ABIN391089 and ABIN2841230) is used in Western blot to detect KHK in mouse kidney tissue lysate.