KHK Isoform C Antibody

Catalog No: #21709

Package Size: #21709-1 50ul #21709-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

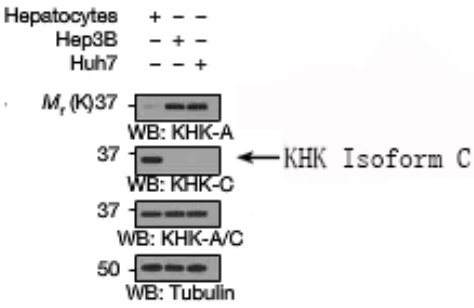
Product Name	KHK Isoform C Antibody
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total KHK Isoform C protein.
Immunogen Description	Peptide sequence around aa.102~106 (N-N-S-N-G) derived from Human KHK Isoform C.
Other Names	Ketohexokinase; Hepatic fructokinase; KHK
Accession No.	Swiss-Prot#: P50053-1NCBI Gene ID: 3795NCBI Protein#: NP_000212.1
Concentration	1.0mg/mL
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

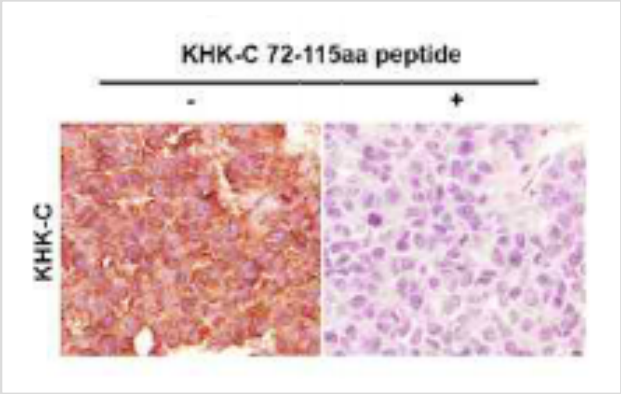
Western blotting: 1:500-1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Hepatocytee,Hep3B and Huh7 cells using KHK Isoform C Antibody #21709. (Reference: Nat Cell Biol. 2016 May;18(5):561-71.)



Immunohistochemical analysis of tumors derived from Huh-7cells using KHK Isoform C Antibody #21709(left) or the same antibody preincubated with blocking peptide (right). (Reference: Nat Cell Biol. 2016 May;18(5):561-71.)

Background

Catalyzes the phosphorylation of the ketose sugar fructose to fructose-1-phosphate.
Bonthron D.T., Brady N., Donaldson I.A., Steinmann B.Hum. Mol. Genet. 3:1627-1631(1994)

Published Papers

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el at., Ketohexokinase inhibition improves NASH by reducing fructose-induced steatosis and fibrogenesis. In JHEP Rep on 2020 Nov 20 by Emma L Shepherd, Raquel Saborano, et al..PMID:33490936, , (2021)

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el at., The small intestine shields the liver from fructose-induced steatosis. In Nat Metab on 2020 Jul by Cholsoon Jang, Shogo Wada, et al..PMID: 32694791, , (2020)

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el at., Ketohexokinase-A acts as a nuclear protein kinase that mediates fructose-induced metastasis in breast cancer. In Nat Commun on 2020 Oct 28 by Jiyoung Kim, Jengmin Kang, et al..PMID:33116123, , (2020)

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el at., Deletion of Fructokinase in the Liver or in the Intestine Reveals Differential Effects on Sugar-Induced Metabolic Dysfunction. In Cell Metab on 2020 Jul 7
by Ana Andres-Hernando, David J Orlicky, et al..PMID:32502381, , (2020)

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el at., The RNA-Binding Protein A1CF Regulates Hepatic Fructose and Glycerol Metabolism via Alternative RNA Splicing. In Cell Rep on 2019 Oct 8 by Kostas C Nikolaou, Hasan Vatandaslar, et al..PMID: 31597092
, , (2019)

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Li X, Qian X, Peng LX et al el at., A splicing switch from ketohexokinase-C to ketohexokinase-A drives hepatocellular carcinoma formation, Nat Cell Biol., 18(5):561-71.(2016 May)

PMID:27088854

el at., A splicing switch from ketohexokinase-C to ketohexokinase-A drives hepatocellular carcinoma formation.In Nat Cell Biol on 2016 Ma by Xinjian Li , Xu Qian et al..PMID:27088854 , , (2016)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.