

KHK Isoform A Antibody

Catalog No: #21708

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Description

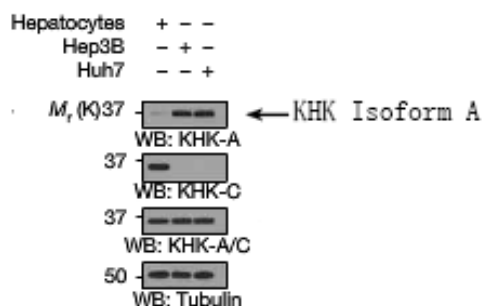
Product Name	KHK Isoform A Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total KHK Isoform A protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.90~95 (T-T-G-S-V) derived from Human KHK Isoform A .
Other Names	Ketohexokinase; Hepatic fructokinase; KHK
Accession No.	Swiss-Prot#: P50053-2NCBI Gene ID: 3795NCBI Protein#: NP_000212.1
Calculated MW	33kd
Concentration	1.0mg/mL
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

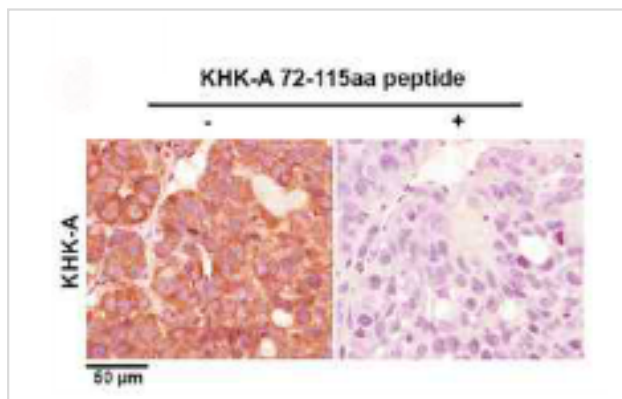
Western blotting: 1:500-1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Hepatocyte, Hep3B and Huh7 cells using KHK Isoform A Antibody #21708. (Reference: Nat Cell Biol. 2016 May;18(5):561-71.)



Immunohistochemical analysis of tumors derived from Huh-7 cells using KHK Isoform A Antibody #21708 (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

et al., 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)

[PMID:33490936](#)

et al., IL-6/STAT3 signaling activation exacerbates high fructose-induced podocyte hypertrophy by ketohexokinase-A-mediated tristetrin down-regulation. In Cell Signal on 2021 Oct by Jie Zhou, Jie Yang, et al..PMID:34252535, , (2021)

[PMID:34252535](#)

et al., 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)

[PMID:32694791](#)

et al., 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)

[PMID:33116123](#)

et al., Increased ketohexokinase-A governs fructose-induced podocyte hypertrophy by IL-6/STAT3 signaling activation, , (2020)

[PMID:](#)

et al., 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)

[PMID:32502381](#)

et al., Prognostic Impact of Metabolism Reprogramming Markers Acetyl-CoA Synthetase 2 Phosphorylation and Ketohexokinase-A Expression In Non-Small-Cell Lung Carcinoma. In Front Oncol on 2019 Nov 5 by Yang X, Shao F, et al..PMID:31750240, , (2019)

[PMID:31750240](#)

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

[PMID:27088854](#)

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

[PMID:27088854](#)

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