SANTA CRUZ BIOTECHNOLOGY, INC.

Ketohexokinase (m): 293T Lysate: sc-121206

BACKGROUND

The hexokinases utilize Mg-ATP as a phosphoryl donor to catalyze the first step of intracellular glucose metabolism, the conversion of glucose to glucose-6-phosphate. Ketohexokinase (hepatic fructokinase) belongs to the carbohydrate kinase pfkB family and requires potassium. It functions in the metabolism of dietary fructose in mammals, catalyzing the conversion of fructose to fructose-1-phosphate. Ketohexokinase is expressed most abundantly in kidney, liver, pancreas and spleen, while lower levels are seen in muscle, eye and brain. Mutations in KHK, the gene encoding for Ketohexokinase, cause fructosuria, a benign defect of intermediary metabolism characterized by the excretion of fructose in the urine.

REFERENCES

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4. Hayward, B.E. and Bonthron, D.T. 1998. Structure and alternative splicing of the Ketohexokinase gene. Eur. J. Biochem. 257: 85-91.
5. Funari, V.A., Herrera, V.L., Freeman, D. and Tolan, D.R. 2005. Genes required for fructose metabolism are expressed in Purkinje cells in the cerebellum. Brain Res. Mol. Brain Res.142: 115-122.
6. Fabbro, C., de Gemmis, P., Braghetta, P., Colombatti, A., Volpin, D., Bonaldo, P. and Bressan, G.M. 2005. Analysis of regulatory regions of Emilin1 gene and their combinatorial contribution to tissue-specific transcription. J. Biol. Chem. 280: 15749-15760.

CHROMOSOMAL LOCATION

Genetic locus: Khk (mouse) mapping to 5 B1.

PRODUCT

Ketohexokinase (m): 293T Lysate represents a lysate of mouse Ketohexo-kinase transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Ketohexokinase (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Ketohexokinase antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.