

Ketohexokinase (H-42): sc-366024

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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CHROMOSOMAL LOCATION

Genetic locus: KHK (human) mapping to 2p23.3; Khk (mouse) mapping to 5 B1.

SOURCE

Ketohexokinase (H-42) is a rabbit polyclonal antibody raised against amino acids 257-298 mapping at the C-terminus of Ketohexokinase of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

Ketohexokinase (H-42) is recommended for detection of Ketohexokinase of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

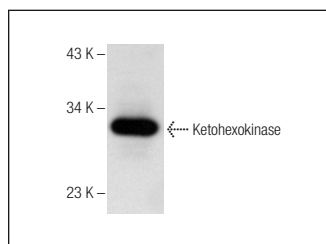
Ketohexokinase (H-42) is also recommended for detection of Ketohexokinase in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Ketohexokinase siRNA (h): sc-60878, Ketohexokinase siRNA (m): sc-60879, Ketohexokinase shRNA Plasmid (h): sc-60878-SH, Ketohexokinase shRNA Plasmid (m): sc-60879-SH, Ketohexokinase shRNA (h) Lentiviral Particles: sc-60878-V and Ketohexokinase shRNA (m) Lentiviral Particles: sc-60879-V.

Molecular Weight of Ketohexokinase: 33 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or human spleen extract: sc-363779.

DATA



Ketohexokinase (H-42): sc-366024. Western blot analysis of Ketohexokinase expression in Hep G2 whole cell lysate.

PROTOCOLS

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


 MONOS
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Try **Ketohexokinase (B-6): sc-377411** or **Ketohexokinase (TT-I): sc-100381**, our highly recommended monoclonal alternatives to Ketohexokinase (H-42).