**Ketohexokinase (B-6): sc-377411**

**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 pKB 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.

**CHROMOSOMAL LOCATION**

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

**SOURCE**

Ketohexokinase (B-6) is a mouse monoclonal antibody raised against amino acids 257-298 mapping at the C-terminus of Ketohexokinase of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Ketohexokinase (B-6) is available conjugated to agarose (sc-377411 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377411 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-377411 PE), fluorescein (sc-377411 FITC), Alexa Fluor® 488 (sc-377411 AF488), Alexa Fluor® 546 (sc-377411 AF546), Alexa Fluor® 594 (sc-377411 AF594) or Alexa Fluor® 647 (sc-377411 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-377411 AF680) or Alexa Fluor® 790 (sc-377411 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Ketohexokinase (B-6) is recommended for detection of Ketohexokinase of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate), immuno-fluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of Ketohexokinase: 33 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, RAW 264.7 whole cell lysate: sc-2211 or KNRK whole cell lysate: sc-2214.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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