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Datasheet for ABIN1882090

anti-Hexokinase 2 antibody (AA 453-483)

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Overview

Quantity:	400 µL
Target:	Hexokinase 2 (HK2)
Binding Specificity:	AA 453-483
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hexokinase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HK2 (Hexokinase II) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 453-483 amino acids from the Central region of human HK2 (Hexokinase II).
Clone:	RB5333
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Hexokinase 2 (HK2)
Alternative Name:	HK2 (Hexokinase II) (HK2 Products)

Target Details

Background: In vertebrates there are four major glucose-phosphorylating isoenzymes, designated hexokinase I, II, III, and IV. Hexokinase is an allosteric enzyme inhibited by its product GLC-6-P. Hexokinase activity is involved in the first step in several metabolic pathways. HK3 is bound to the outer mitochondrial membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding. It is the predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle. The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Although found in NIDDM patients, genetic variations of HK2 do not contribute to the disease.

Molecular Weight: 102380

NCBI Accession: [NP_000180](#)

UniProt: [P52789](#)

Pathways: [PI3K-Akt Signaling](#), [Carbohydrate Homeostasis](#), [Warburg Effect](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:100. IHC-P: 1:100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

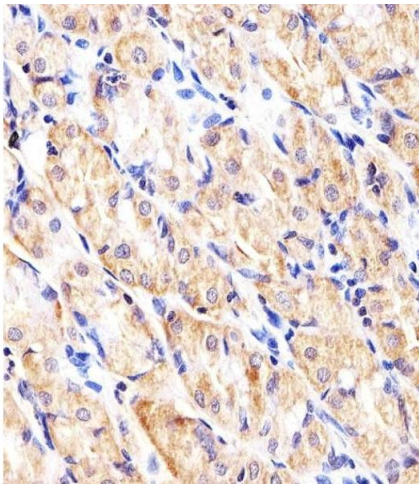
Storage: 4 °C, -20 °C

Expiry Date: 6 months

Publications

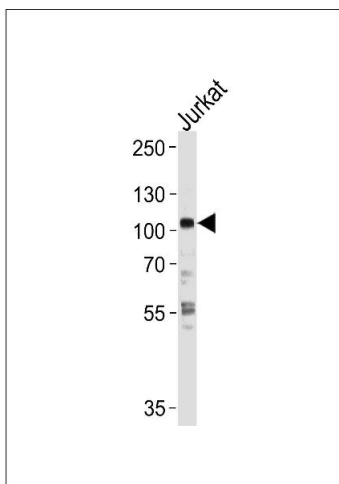
Product cited in: Guzel, Yazici, Pek, Doganay, Simsek, Saglam, Turan, Yazici: "Atrial natriuretic peptide and posterior pituitary neurohormone changes in patients with acute schizophrenia." in: **Neuropsychiatric disease and treatment**, Vol. 14, pp. 1855-1860, (2018) ([PubMed](#)).

Yuksel, Ital, Balaban, Kocak, Seven, Kucur, Erbakirci, Keskin: "Immediate breastfeeding and skin-to-skin contact during cesarean section decreases maternal oxidative stress, a prospective randomized case-controlled study." in: **The journal of maternal-fetal & neonatal medicine**, Vol. 29, Issue 16, pp. 2691-6, (2017) ([PubMed](#)).



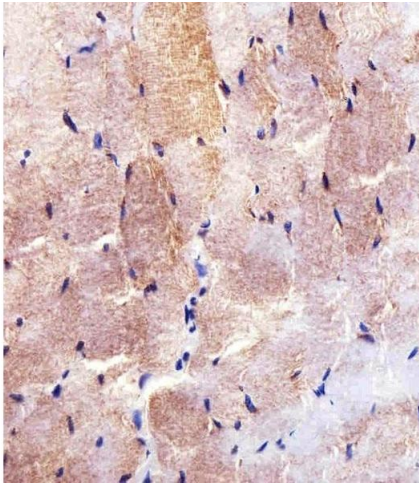
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded H. stomach section using HK2 (Hexokinase II) Antibody (Center) f. f was diluted at 1:100 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Western Blotting

Image 2. HK2 Antibody f western blot analysis in Jurkat cell line lysates (35 µg/lane). This demonstrates the HK2 antibody detected the HK2 protein (arrow).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical analysis of paraffin-embedded H. skeletal muscle section using HK2 (Hexokinase II) Antibody (Center) f. f was diluted at 1:100 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.