Datasheet for ABIN392755

anti-Hexokinase 2 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	Hexokinase 2 (HK2)
Binding Specificity:	AA 91-121, N-Term
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 91-121 amino acids from the N-terminal region of human HK2 (Hexokinase II).
Clone:	RB3917
Isotype:	Ig Fraction
Predicted Reactivity:	M, Pig, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Hexokinase 2 (HK2)

Target Details

Alternative Name:	HK2 (Hexokinase II) (HK2 Products)
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 bindng. It is the predominant hexokinase isozyme expressed in insuline-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 wiht the N-terminus. Although found in NIDDM patients, genetic variations of HK2 do not contribute to the disease.
Molecular Weight:	102380
Gene ID:	3099
NCBI Accession:	NP_000180
UniProt:	P52789
Pathways:	PI3K-Akt Signaling, Carbohydrate Homeostasis, Warburg Effect

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
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
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

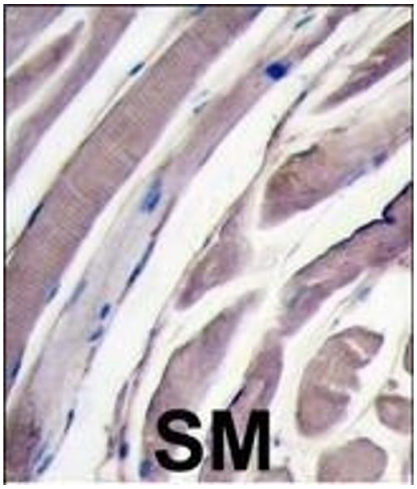
Publications

Product cited in:

Wang, Luo, Che, Li, Gao, Yang, Zhou, Gao, Wang, Liang, Zhang: "Placental protein 14 as a potential biomarker for diagnosis of preterm premature rupture of membranes." in: **Molecular medicine reports**, Vol. 18, Issue 1, pp. 113-122, (2018) (PubMed).

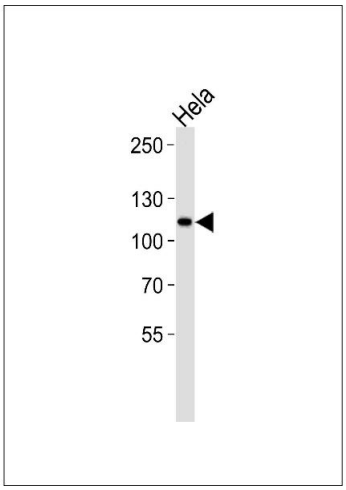
Zhang, Abudula, Awuti, Wang, Aihemaiti, Tusung, Sulaiman, Upur: "Plasma proteins as potential targets of abnormal Savda syndrome in asthma patients treated with unique Uighur prescription." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 1, pp. 267-275, (2017) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with HK2 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. HK2 Antibody (ABIN392755 and ABIN2842207) western blot analysis in Hela cell line lysates (35 µg/lane).This demonstrates the HK2 antibody detected the HK2 protein (arrow).