

Datasheet for ABIN392760

anti-Hexokinase 1 antibody (C-Term)

3 Images



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Overview

Quantity:	400 µL
Target:	Hexokinase 1 (HK1)
Binding Specificity:	AA 705-734, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hexokinase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 705-734 amino acids from the C-terminal region of human HK1.
Clone:	RB03923-03924
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Hexokinase 1 (HK1)
Alternative Name:	HK1 (HK1 Products)

Target Details

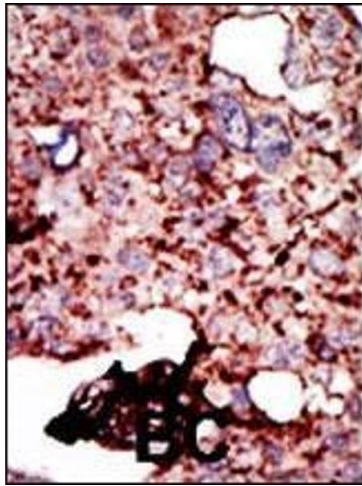
Background:	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. The hexokinase gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of the hexokinase gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus, the remainder of the protein is identical among all the isoforms. HK1 encodes the ubiquitously expressed isoform. Its 5' end includes an exon which is unique to this transcript and which encodes a distinct N-terminus that contains the porin binding domain (PBD). The porin binding domain mediates association with the mitochondrial membrane.
Molecular Weight:	102486
Gene ID:	3098
NCBI Accession:	NP_000179 , NP_277031 , NP_277032 , NP_277033 , NP_277035
UniProt:	P19367
Pathways:	Carbohydrate Homeostasis , Warburg Effect

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

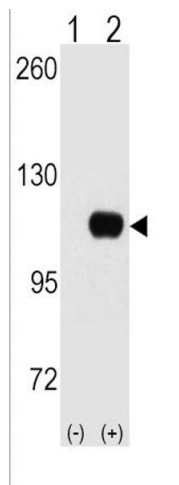
Handling

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



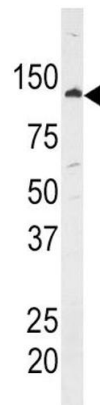
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, 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. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of HK1 (arrow) using HK1 Antibody (C-term) (ABIN392760 and ABIN2842211). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the HK1 gene (Lane 2) (Origene Technologies).



Western Blotting

Image 3. Western blot analysis of anti-HK1 Antibody (C-term) (ABIN392760 and ABIN2842211) in cell line lysate. HK1 (arrow) was detected using the purified Pab.