

Datasheet for ABIN392759

**anti-Hexokinase 1 antibody (N-Term)**

5 Images

1 Publication

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## Overview

Quantity:	400 µL
Target:	Hexokinase 1 (HK1)
Binding Specificity:	AA 78-108, N-Term
Reactivity:	Human, Rat
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 (Hexokinase) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-108 amino acids from the N-terminal region of human HK1 (Hexokinase).
Clone:	RB3921-RB3922
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	Hexokinase 1 (HK1)
Alternative Name:	HK1 (Hexokinase) ( <a href="#">HK1 Products</a> )

## 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:	<a href="#">NP_000179</a> , <a href="#">NP_277031</a> , <a href="#">NP_277032</a> , <a href="#">NP_277033</a> , <a href="#">NP_277035</a>
UniProt:	<a href="#">P19367</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a> , <a href="#">Warburg Effect</a>

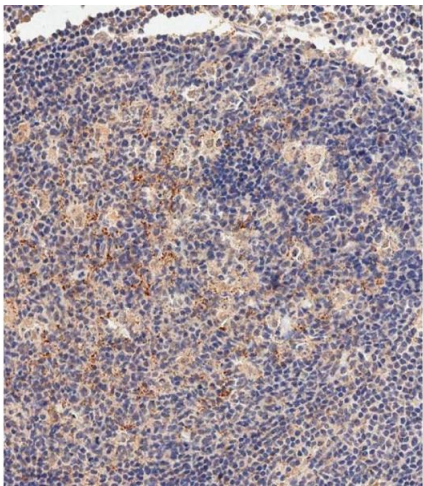
## Application Details

Application Notes:	WB: 1:1000. WB: 1:2000. WB: 1:1000. WB: 1:1000. IHC-P-Leica: 1:500
Restrictions:	For Research Use only

## Handling

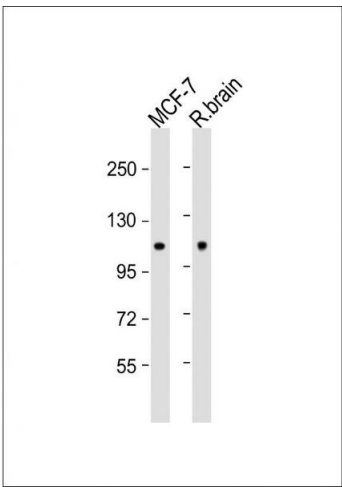
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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

Product cited in: Surowiec, Battle, Ward, Schlecht, Khoury, Robbins, Wojtys, Caird, Kozloff: "A xenograft model to evaluate the bone forming effects of sclerostin antibody in human bone derived from pediatric osteogenesis imperfecta patients." in: **Bone**, Vol. 130, pp. 115118, (2020) ([PubMed](#)).



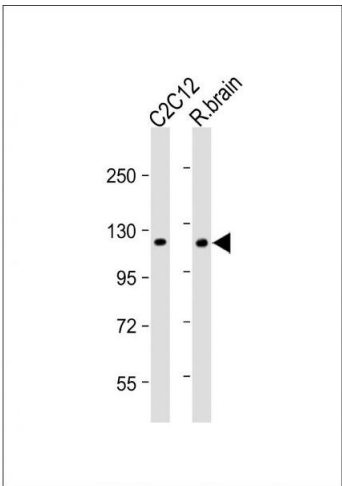
**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemical analysis of paraffin-embedded human tonsil tissue using (ABIN392759 and ABIN2842210) performed on the Leica® BOND RXm. Samples were incubated with primary Antibody (1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



**Western Blotting**

**Image 2.** All lanes : Anti-HK1 (Hexokinase) Antibody (N-term) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: Rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 110 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



**Western Blotting**

**Image 3.** All lanes : Anti-hHK1-L93 at 1:2000 dilution Lane 1: C2C12 whole cell lysate Lane 2: Rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 102 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

## Images

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Please check the [product details page](#) for more images. Overall 5 images are available for ABIN392759.