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Datasheet for ABIN2856070  
**anti-Hexokinase 1 antibody**

3 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	Hexokinase 1 (HK1)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hexokinase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Whole Mount) (IHC (wm))

### Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Hexokinase 1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to HXK I (hexokinase 1) Hexokinase 1 antibody
Purification:	Purified by antigen-affinity chromatography.

### Target Details

Target:	Hexokinase 1 (HK1)
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## Target Details

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Alternative Name:	hexokinase 1 ( <a href="#">HK1 Products</a> )
Background:	<p>Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. This 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 this 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. A sixth transcript variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein.</p> <p>Cellular Localization: Mitochondrion outer membrane</p>
Molecular Weight:	102 kDa
Gene ID:	3098
UniProt:	<a href="#">P19367</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a> , <a href="#">Warburg Effect</a>

## Application Details

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Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: A431 , H1299 , HeLaS3 , HepG2 Validation: Orthogonal
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine ( pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

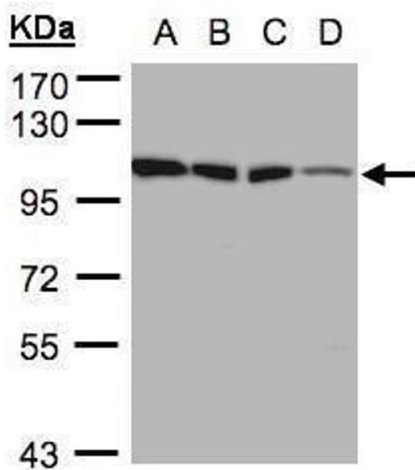
## Handling

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Publications

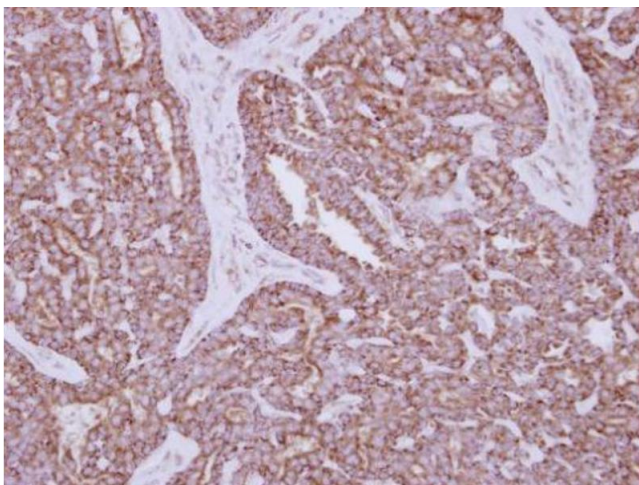
Product cited in: Pfeifer, Thurner, Kessel, Fadle, Kheiroddin, Regitz, Hoffmann, Kos, Preuss, Fischer, Roemer, Lohse, Heyne, Detemple, Fedlmeier, Juenger, Sauer, Meyer, Rohrer, Wittkowski, Becker, Masjosthusmann, Bals et al.: "Autoantibodies against interleukin-1 receptor antagonist in multisystem inflammatory syndrome in children: a multicentre, retrospective, cohort study. ..." in: **The Lancet. Rheumatology**, Vol. 4, Issue 5, pp. e329-e337, (2022) ([PubMed](#)).

## Images



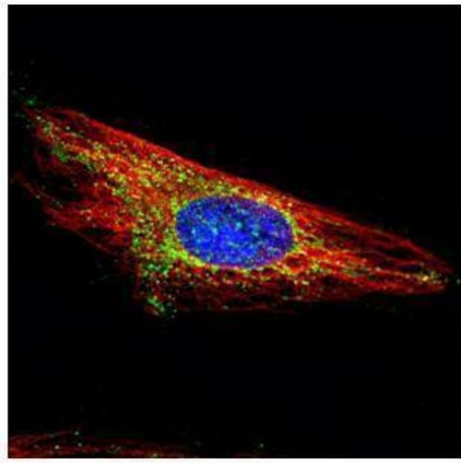
### Western Blotting

**Image 1.** WB Image Sample(30 ug whole cell lysate) A:A431, B:H1299 C:HeLa S3, D:Hep G2 , 7.5% SDS PAGE antibody diluted at 1:3000



### Immunohistochemistry

**Image 2.** IHC-P Image Immunohistochemical analysis of paraffin-embedded human breast cancer, using HXK I, antibody at 1:250 dilution.



### Immunofluorescence

**Image 3.** ICC/IF Image Confocal immunofluorescence analysis (Olympus FV10i) of methanol-fixed HeLa, using HXK I, antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with (Red) at 1:2000.