

Datasheet for ABIN317095

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

5 Images

[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	Hexokinase 1 (HK1)
Binding Specificity:	AA 1-917, N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Hexokinase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	Recombinant Human Hexokinase 1 (1-917 aa) purified from E. coli
Clone:	4D7
Isotype:	IgG2a
Specificity:	The antibody recognizes all four isoforms of Hexokinase (1~4) in recombinant protein.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse (see pictures below).
Characteristics:	Synonyms: HK1, Hexokinase type I, Brain form hexokinase
Purification:	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

## Target Details

Target:	Hexokinase 1 (HK1)
Alternative Name:	Hexokinase-1 ( <a href="#">HK1 Products</a> )
Background:	Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group from ATP to glucose to form glucose-6-phosphate and ADP. In mammals, four distinct enzymes-types 1 to 4 hexokinases-have been identified. The enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase1 is found in the adipose tissue and liver and encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. A deficiency in hexokinase 1 is implicated in the rare hereditary autosomal recessive disease known as nonspherocytic haemolytic anaemia.Synonyms: Brain form hexokinase, HK1, Hexokinase type I
Gene ID:	3098
UniProt:	<a href="#">P19367</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a> , <a href="#">Warburg Effect</a>

## Application Details

Application Notes:	ELISA. Western blot (1: 1,000). Immunofluorescence (1: 1,000). Immunohistochemistry on Paraffin Sections (5 µg/mL): This antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.  Other applications not tested.  Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

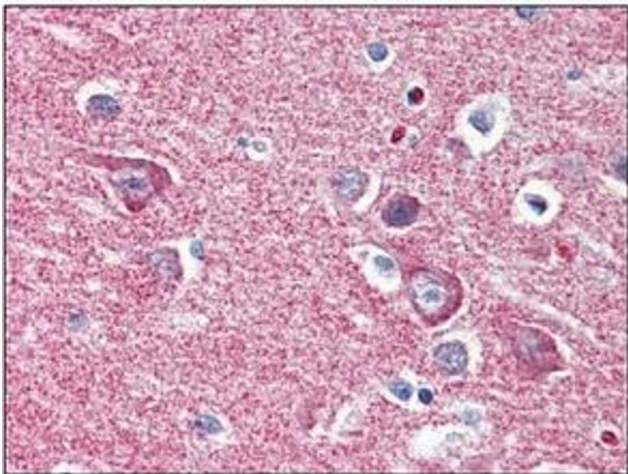
## Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4, containing 0.09 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

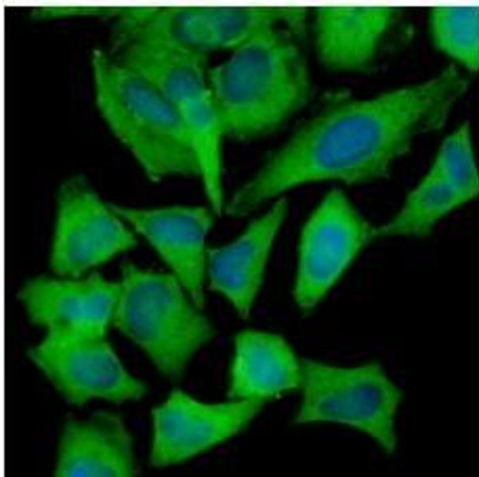
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Expiry Date:	12 months

## Images



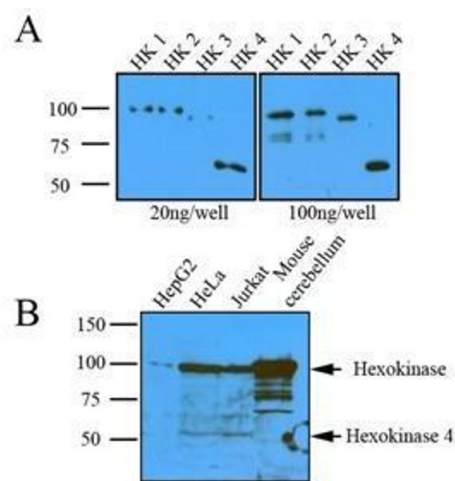
### Immunohistochemistry

**Image 1.**



### Immunofluorescence

**Image 2.**



Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN317095.