

## Basic Information

Product Name	Anti-Hexokinase 1/HK1 Antibody	
Gene Name	HK1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human Hexokinase 1/HK1 recombinant protein (Position: D17-R323).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	120 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

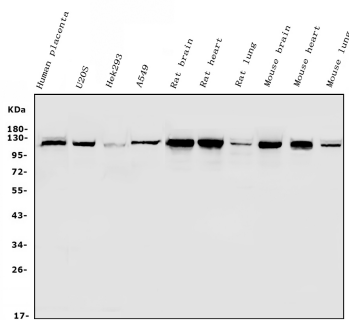
## Background Information

Hexokinase-1 (HK1) is an enzyme that in humans is encoded by the HK1 gene on chromosome 10. It is mapped to 10q22.1. Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. 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 several transcript variants which encode different isoforms, some of which are tissue-specific.

## Reference

Anti-Hexokinase 1/HK1 Antibody被引用在1文献中。

## Selected Validation Data



Western blot analysis of Hexokinase 1/HK1 using anti-Hexokinase 1/HK1 antibody (A01504-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Human placenta tissue lysates,

Lane 2: Human U2OS whole cell lysates,

Lane 3: Human HEK293 whole cell lysates,

Lane 4: Human A549 whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: rat heart tissue lysates,

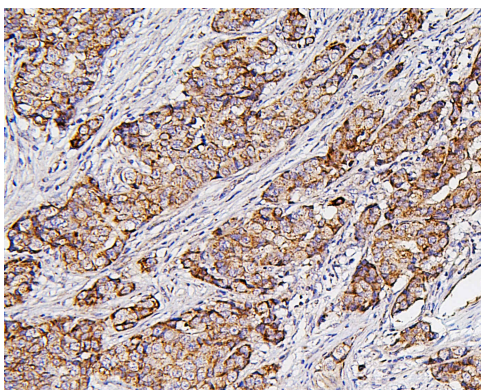
Lane 7: rat lung tissue lysates,

Lane 8: mouse brain tissue lysates,

Lane 9: mouse heart tissue lysates,

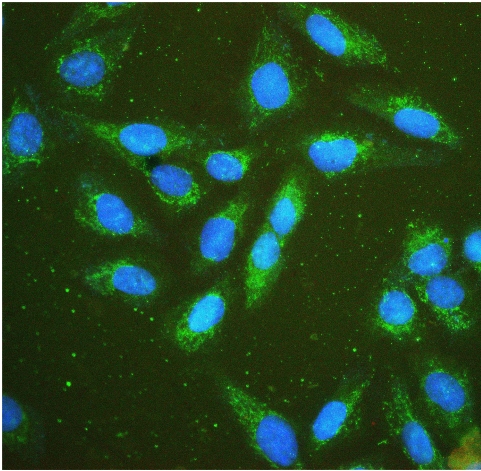
Lane 10: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Hexokinase 1/HK1 antigen affinity purified polyclonal antibody (A01504-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Hexokinase 1/HK1 at approximately 120 kDa. The expected band size for Hexokinase 1/HK1 is at 102 kDa.



IHC analysis of Hexokinase 1/HK1 using anti-Hexokinase 1/HK1 antibody (A01504-1).

Hexokinase 1/HK1 was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Hexokinase 1/HK1 Antibody (A01504-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of HK1 using anti- HK1 antibody (A01504-1).

HK1 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) . DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.