

For Research Use Only

# Hexokinase 1 Polyclonal antibody

Catalog Number: 19662-1-AP

Featured Product

53 Publications



## Basic Information

### Catalog Number:

19662-1-AP

### Concentration:

550 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8015

### GenBank Accession Number:

BC008730

### GeneID (NCBI):

3098

### UNIPROT ID:

P19367

### Full Name:

hexokinase 1

### Calculated MW:

102 kDa

### Observed MW:

100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, chicken

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HEK-293 cells, HeLa cells, MCF-7 cells, HepG2 cells, mouse brain tissue, rat brain tissue, THP-1 cells

**IP** : HeLa cells,

**IHC** : mouse brain tissue, human stomach tissue, human stomach cancer tissue

**IF/ICC** : HeLa cells,

## Background Information

The hexokinases (HKs) catalyze the first obligatory step in glucose metabolism to generate glucose-6-phosphate. This not only furthers glucose entry by maintaining the concentration gradient for facilitated glucose influx but also provides the first intermediate for essentially all major pathways using glucose. There are four conventional HK isoforms, HK1/2/3/4, encoded by four different genes. Most adult tissues express only HK1. Muscle and adipose tissue use HK2 for glycolysis, liver, and pancreatic beta cells express HK4 (also called glucokinase) and do not express HK1 or HK2. (PMID: 31434645, PMID: 31848318)

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoduan Li	34510316	Cell Biol Toxicol	WB
Xixi Guo	31480692	Biomolecules	WB
Sivakama S Bharathi	36335793	Mol Genet Metab	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

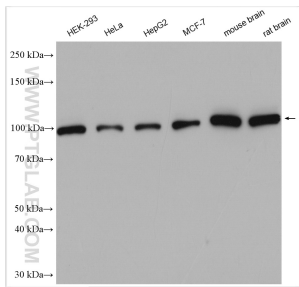
T: 4006900926

E: Proteintech-CN@ptglab.com

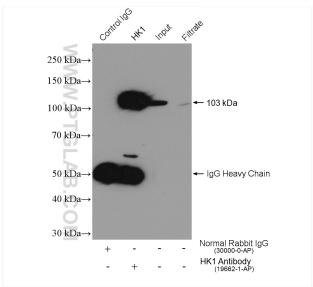
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

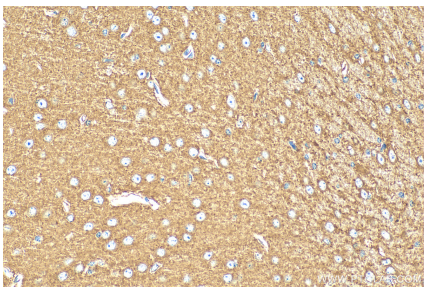
## Selected Validation Data



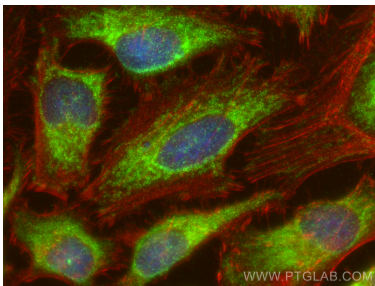
Various lysates were subjected to SDS PAGE followed by western blot with 19662-1-AP (Hexokinase 1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-Hexokinase 1 (IP:19662-1-AP, 4ug; Detection:19662-1-AP 1:2000) with HeLa cells lysate 1720 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19662-1-AP (Hexokinase 1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Hexokinase 1 antibody (19662-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).