

For Research Use Only

# Hexokinase 2 Polyclonal antibody

Catalog Number: 22029-1-AP

Featured Product

285 Publications



## Basic Information

### Catalog Number:

22029-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16895

### GenBank Accession Number:

BC021116

### GeneID (NCBI):

3099

### UNIPROT ID:

P52789

### Full Name:

hexokinase 2

### Calculated MW:

102 kDa

### Observed MW:

102 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:1000-1:4000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, canine, monkey, chicken, bovine

**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** : HeLa cells, mouse skeletal muscle tissue, Jurkat cells, MCF-7 cells

**IP** : HeLa cells,

**IHC** : human urothelial carcinoma tissue,

**IF/ICC** : HeLa cells,

## Background Information

Hexokinase 2 (HK2), a rate-limiting enzyme in the first step of glycolysis pathway, expresses at high level in cancer cells compared with normal cells. HK2 provides a new target for cancer therapy due to its pivotal role in tumor tumorigenic and metastatic process. HK1 is constitutively expressed in most mammalian adult tissues. HK2, however, although is abundantly expressed in embryonic tissues, is expressed at high levels only in limited number of adult tissues such as adipose, skeletal, and cardiac muscles. (PMID: 29305912, PMID: 28427443, PMID: 23911236). The antibody also recognizes Hexokinase 1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Na Du	36155179	Life Sci	WB
Lifang Li	36230229	Animals (Basel)	WB
Weimou Chen	34603058	Front Pharmacol	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

\*\*\* 20ul sizes contain 0.1% BSA

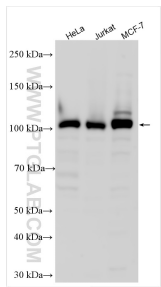
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

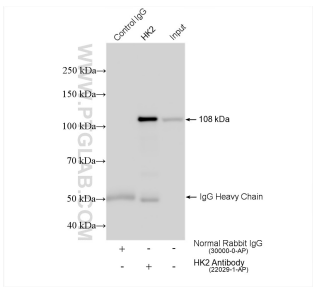
E: proteintech@ptglab.com  
W: ptglab.com

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

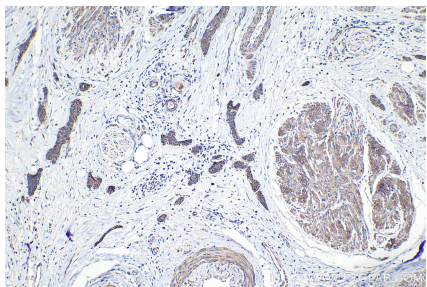
Selected Validation Data



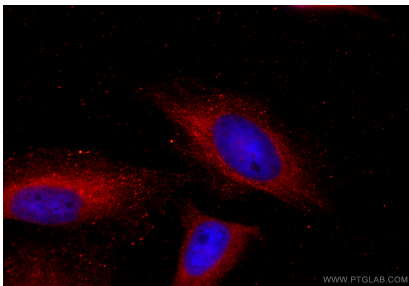
Various lysates were subjected to SDS PAGE followed by western blot with 22029-1-AP (Hexokinase 2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-Hexokinase 2 (IP:22029-1-AP, 4ug; Detection:22029-1-AP 1:10000) with HeLa cells lysate 1520 ug.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 22029-1-AP (Hexokinase 2 antibody) at dilution of 1:2000 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Hexokinase 2 antibody (22029-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).