For Research Use Only

Hexokinase 2 Polyclonal antibody

Catalog Number:22029-1-AP Featured Product 212 Publications

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Basic Information

Catalog Number:
22029-1-AP

Size:
150ul , Concentration: 700 µg/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

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IP, IF, IHC, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, chicken, rat, mouse, monkey, pig, 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,

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 tumourigenic 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

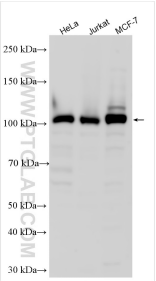
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

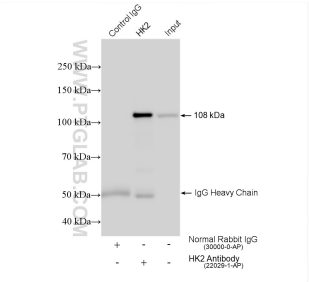
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

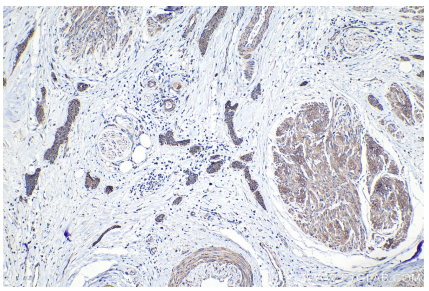
Selected Validation Data



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).