

For Research Use Only

Hexokinase 1 Polyclonal antibody

Catalog Number: 19662-1-AP

Featured Product

52 Publications



Basic Information

Catalog Number:

19662-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

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

*** 20ul sizes contain 0.1% BSA

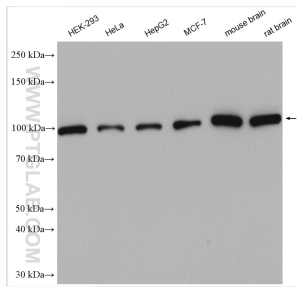
For technical support and original validation data for this product please contact:

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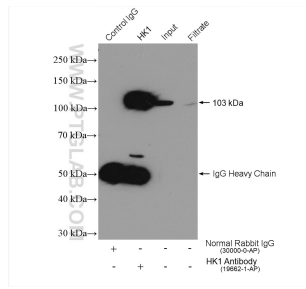
E: proteintech@ptglab.com
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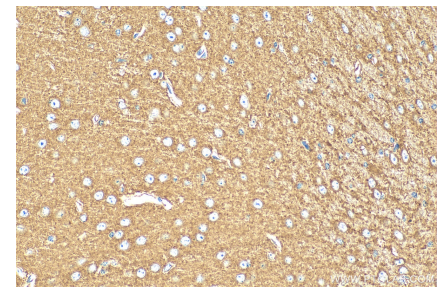
Selected Validation Data



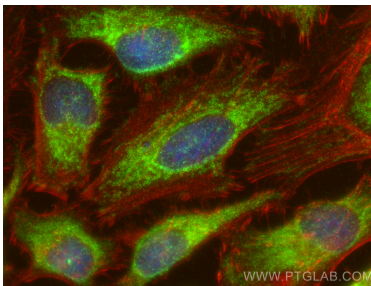
Various lysates were subjected to SDS PAGE followed by western blot with 19662-1-AP (Hexokinase 1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).