

# Hexokinase 1 Monoclonal antibody

Catalog Number: 68419-1-Ig

## Basic Information

## Catalog Number:

68419-1-Ig

## Size:

1000 µg/ml

## Source:

Mouse

## Isotype:

IgG2a

## 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:

Protein A purification

## CloneNo.:

2B4F9

## Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:500-1:2000

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Species Specificity:

Human, mouse, rat, pig

**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, HT-1080 cells, U-87 MG cells, SK-BR-3 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, pig brain tissue

**IP**: HeLa cells,

**IHC**: mouse brain tissue,

## 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)

## 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

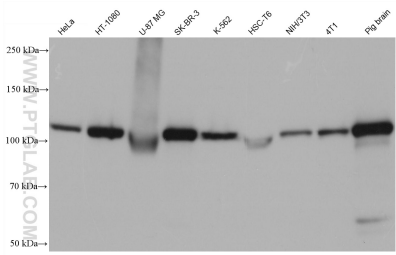
For technical support and original validation data for this product please contact:

T: 4006900926

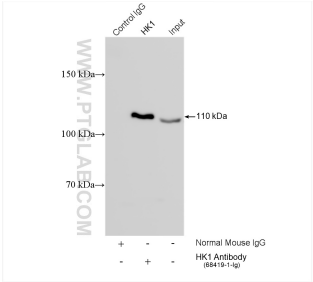
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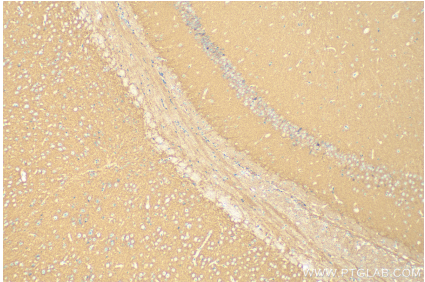
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68419-1-Ig (HK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-Hexokinase 1 (IP:68419-1-Ig, 4ug; Detection:68419-1-Ig 1:2000) with HeLa cells lysate 1560 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68419-1-Ig (Hexokinase 1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).