

## Hexokinase 1 Rabbit mAb

Catalog No: #48867

Package Size: #48867-1 50ul #48867-2 100ul

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## Description

Product Name	Hexokinase 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST47-05
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	BB404130 antibody Brain form hexokinase antibody dea antibody DrHXK1 antibody EC 2.7.1.1 antibody Glycolytic enzyme antibody HEXOKIN antibody hexokinase I antibody Hexokinase PI antibody Hexokinase type I antibody Hexokinase, tumor isozyme antibody Hexokinase-1 antibody Hexokinase-A antibody HK I antibody HK1 antibody HK1 tb antibody Hk1-s antibody HK1-ta antibody HK1-tb antibody HK1-tc antibody HKD antibody HKI antibody HMSNR antibody HXK1 antibody HXK1_HUMAN antibody im:7148527 antibody mHk1-s antibody wu:fc09d08 antibody wu:fc16e02 antibody wu:fc21e02 antibody wu:fq14b11 antibody zgc:55790 antibody zgc:77618 antibody
Accession No.	Swiss-Prot#:P19367
Uniprot	P19367
GeneID	3098;
Calculated MW	102 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

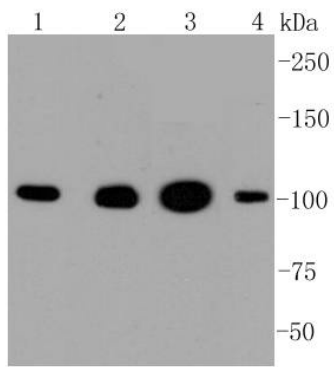
WB: 1:1,000-1:2,000

IHC: 1:50-1:200

ICC: 1:50-1:200

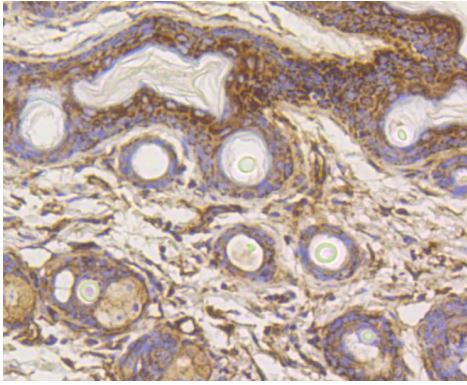
FC: 1:50-1:100

## Images

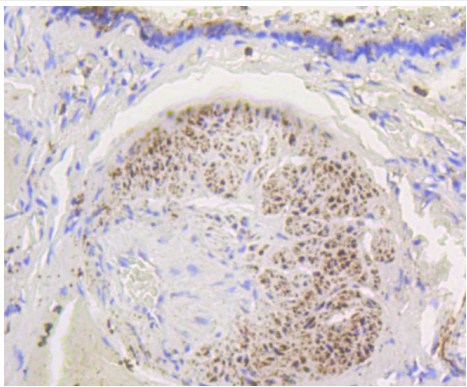


Western blot analysis of Hexokinase 1 on different lysates using anti-Hexokinase 1 antibody at 1/1,000 dilution. Positive control:

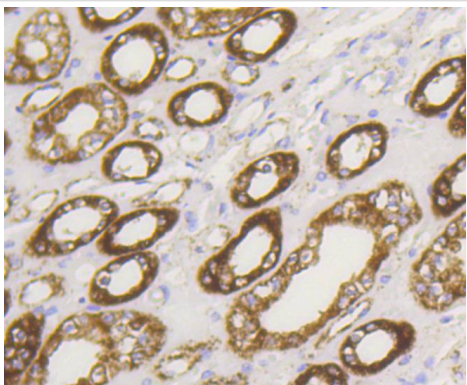
Lane 1: Hela  
Lane 2: 293  
Lane 3: MCF-7  
Lane 4: HepG2



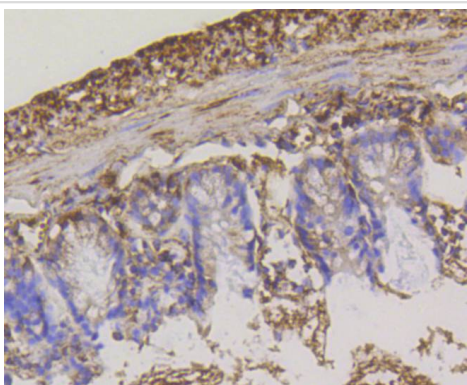
Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-Hexokinase 1 antibody. Counter stained with hematoxylin.



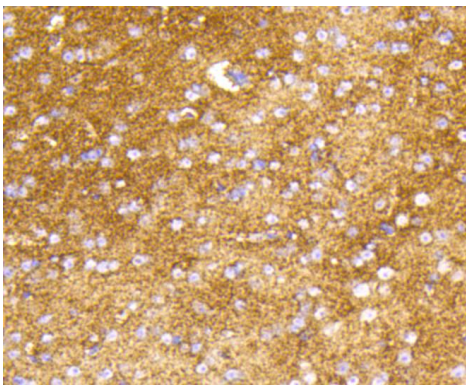
Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Hexokinase 1 antibody. Counter stained with hematoxylin.



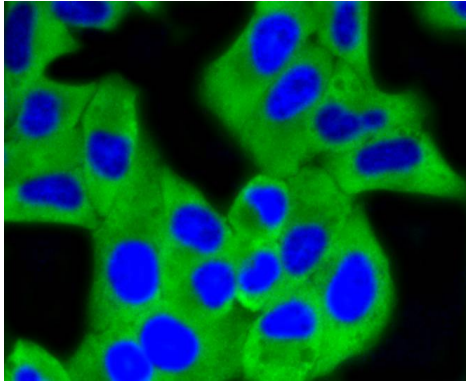
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Hexokinase 1 antibody. Counter stained with hematoxylin.



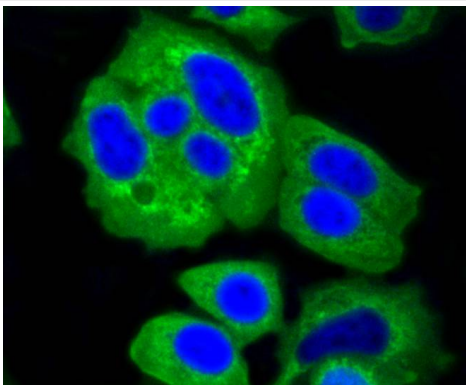
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Hexokinase 1 antibody. Counter stained with hematoxylin.



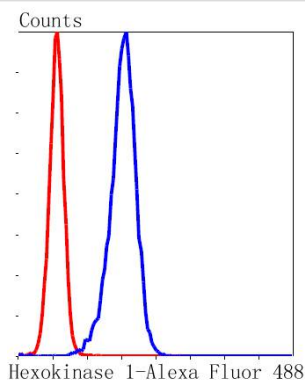
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Hexokinase 1 antibody. Counter stained with hematoxylin.



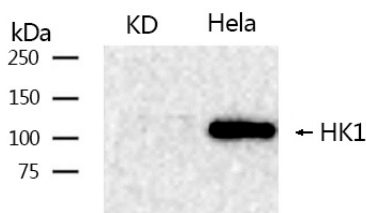
ICC staining Hexokinase 1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Hexokinase 1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of K562 cells with Hexokinase 1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody



Western blotting analysis using Hexokinase 1 Antibody #48867.

## Background

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The hexokinases utilize Mg-ATP as a phosphoryl donor to catalyze the first step of intracellular glucose metabolism, the conversion of glucose to glucose-6-phosphate. Four hexokinase isoenzymes have been identified, including hexokinase I (HXK I), hexokinase II (HXK II), hexokinase III (HXK III) and hexokinase IV (HXK IV, also designated glucokinase or GCK). Hexokinases I-III each contain an N-terminal cluster of hydrophobic amino acids. Glucokinase lacks the N-terminal hydrophobic cluster. The hydrophobic cluster is thought to be necessary for membrane binding. This is substantiated by the finding that glucokinase has lower affinity for glucose than do the other hexokinases. HXK I has been shown to be expressed in brain, kidney and heart tissues as well as in hepatoma cell lines. HXK II is involved in the uptake and utilization of glucose by adipose and skeletal tissues. Of the hexokinases, HXK III has the highest affinity for glucose. Glucokinase is expressed in pancreatic beta cells where it functions as a glucose sensor, determining the set point for insulin secretion.

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Note: This product is for in vitro research use only