

[KO Validated] HK1 Rabbit mAb

Catalog No.: A0533 **KO Validated** **Recombinant** **1 Publications**

Basic Information

Observed MW

120kDa

Calculated MW

102kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0256

Background

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific.

Recommended Dilutions

WB	1:1000 - 1:2000
IHC-P	1:200 - 1:800
IF/ICC	1:200 - 1:800
IP	0.5µg-4µg antibody for 400µg-600µg extracts of whole cells
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID

3098

Swiss Prot

P19367

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 50-150 of human Hexokinase 1 (P19367).

Synonyms

HK; HKD; HKI; HXK1; NMSR; RP79; HMSNR; HK1-ta; HK1-tb; HK1-tc; NEDVIBA; hexokinase; K1

Product Information

Source

Rabbit

Isotype

IgG

Purification

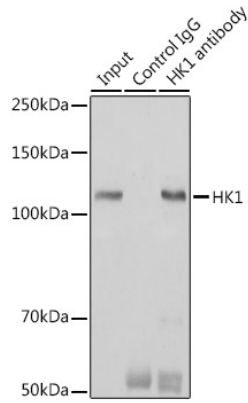
Affinity purification

Storage

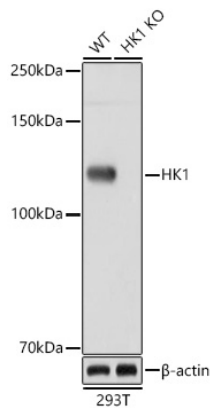
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

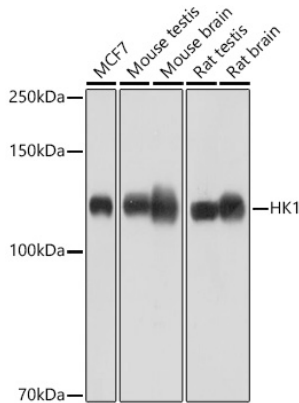
Validation Data



Immunoprecipitation analysis of 600 μ g extracts of Mouse brain cells using 3 μ g [KO Validated] HK1 Rabbit mAb (A0533). Western blot was performed from the immunoprecipitate using HK1 (A0533) at a dilution of 1:1000.

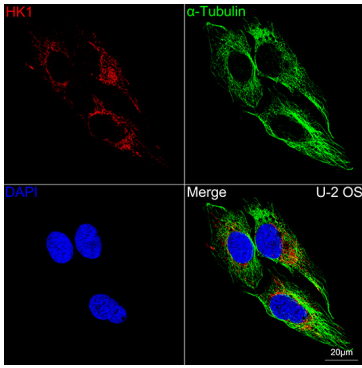


Western blot analysis of lysates from wild type (WT) and HK1 knockout (KO) 293T cells, using [KO Validated] HK1 Rabbit mAb (A0533) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μ g per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

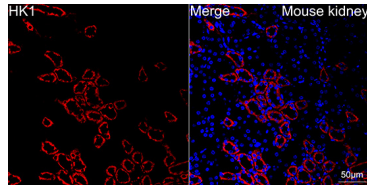


Western blot analysis of various lysates using [KO Validated] HK1 Rabbit mAb (A0533) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μ g per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

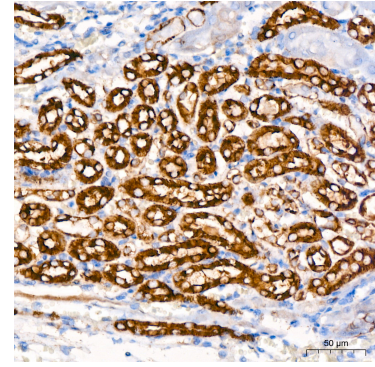
Validation Data



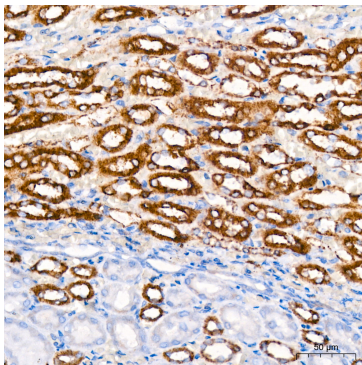
Confocal imaging of U-2 OS cells using [KO Validated] HK1 Rabbit mAb (A0533, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with AF647-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of paraffin-embedded Mouse kidney tissue using [KO Validated] HK1 Rabbit mAb (A0533, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using [KO Validated] HK1 Rabbit mAb (A0533) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KO Validated] HK1 Rabbit mAb (A0533) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.