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[KO Validated] HK1 Rabbit mAb

Catalog No.: A0533 KO Validated Recombinant 6 Publications

Basic Information

Observed MW
120kDa

Calculated MW
102kDa

Category
Primary antibody

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

Immunogen Information

Gene ID
3098

Swiss Prot
P19367

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

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℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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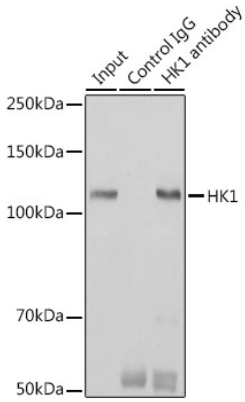
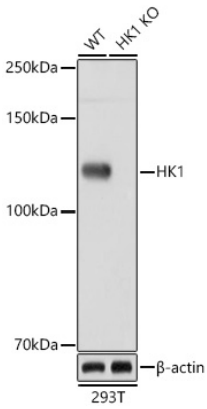
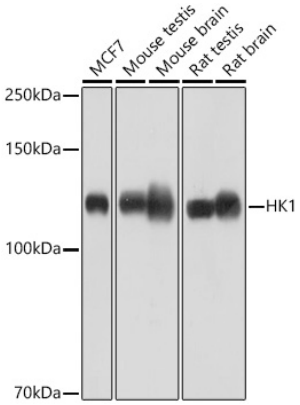
Validation Data



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

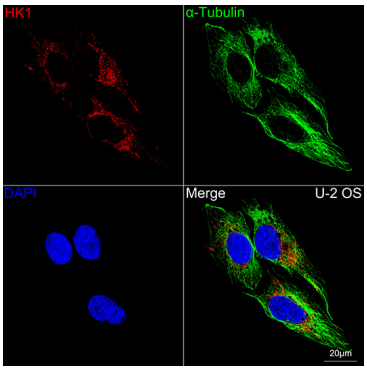


Western blot analysis of lysates from wild type (WT) and HK1 knockout (KO) 293T cells, using [KO Validated] HK1 Rabbit mAb (A0533) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat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

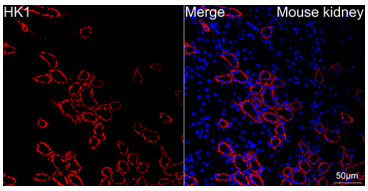


Western blot analysis of various lysates using [KO Validated] HK1 Rabbit mAb (A0533) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).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

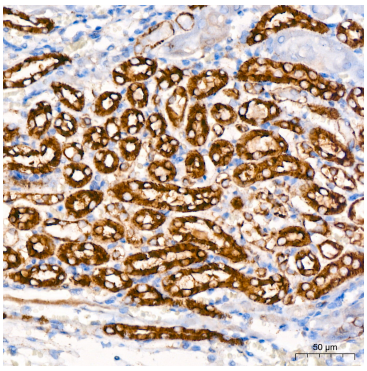
Validation Data



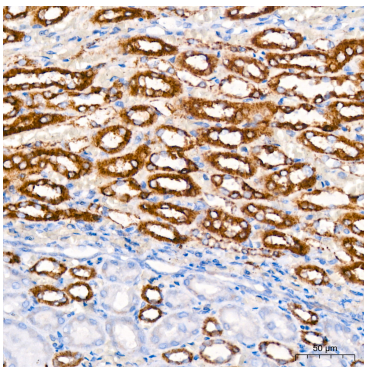
Confocal imaging of U-2 OS cells using [KO Validated] HK1 Rabbit mAb (A0533, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-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 buffer (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 buffer (pH 6.0) prior to IHC staining.