[KO Validated] HK1 Monoclonal Antibody

CAB0533

Description

This [KO Validated] HK1 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB0533
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	HK, HKD, HKI, HXK1, NMSR, RP79, HMSNR, HK1-ta, HK1-tb, HK1-tc, NEDVIBA, hexokinase, K1
Clone:	ARC0256
Applications:	WB IHC-P IF/ICC IP ELISA IF-P
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	3098
Uniprot:	AB_2861463
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	120kDa
Calculated MW:	102kDa

Manufacturers Statement: This final kit system is assembled and quality-released by Assay Genie Limited.

Preparation & Storage

Storage: Store at -20°C. 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.

Store Bradford Reagent at Room Temperature for 1 Year.

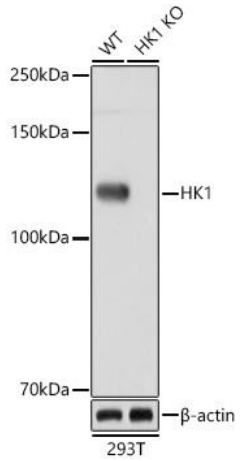
Positive Sample: 293T, MCF7, Mouse testis, Mouse brain, Rat testis, Rat brain

Recommended Dilutions:

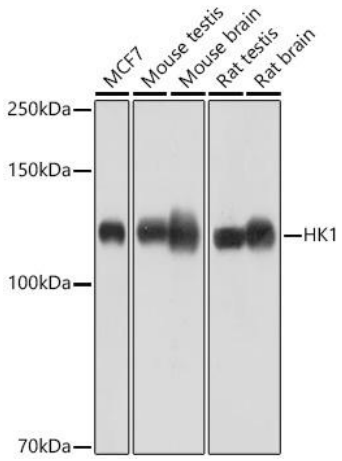
WB	1:1000 - 1:2000
IP	0.5µg-4µg antibody for 400µg-600µg extracts of whole cells
IF/ICC	1:200 - 1:800
IF-P	1:200 - 1:800
IHC-P	1:200 - 1:800
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

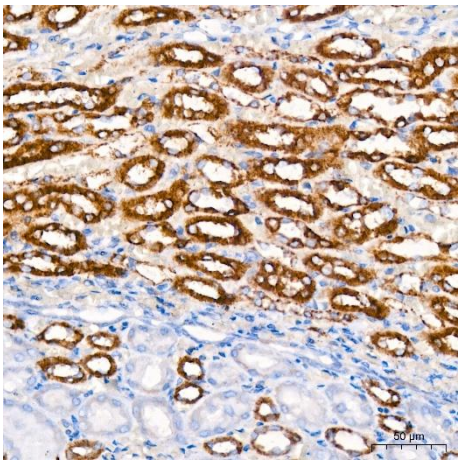
Validation Data



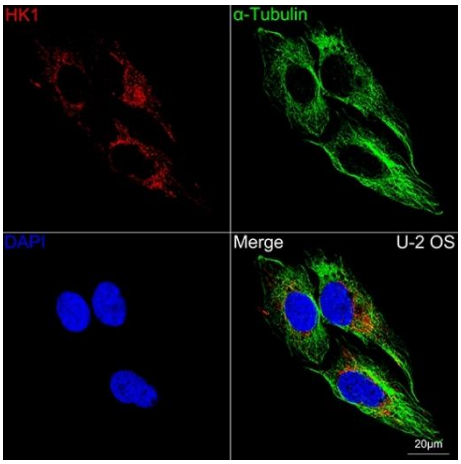
Western blot analysis of lysates from wild type (WT) and knockout (KO) 293T cells, using [KO Validated] Rabbit mAb (CAB0533) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 60s.



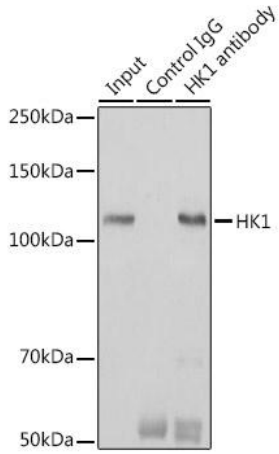
Western blot analysis of various lysates using [KO Validated] Rabbit mAb (CAB0533) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 60s.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KO Validated] Rabbit mAb (CAB0533) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of U-2 OS cells using [KO Validated] Rabbit mAb (CAB0533, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunoprecipitation analysis of 600 µg extracts of Mouse brain cells using 3 µg [KO Validated] Rabbit mAb (CAB0533). Western blot was performed from the immunoprecipitate using (CAB0533) at a dilution of 1:1000.