

[KO Validated] Hexokinase II Rabbit pAb

Catalog No.: A0994 **KO Validated** **9 Publications**

Basic Information

Catalog No.

A0994

Observed MW

102kDa

Calculated MW

102kDa

Category

Primary antibody

Applications

WB, IHC, IF

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200

Contact

 | www.abclonal.com

Background

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells.

Immunogen Information

Gene ID	Swiss Prot
3099	P52789

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-120 of human Hexokinase II (NP_000180.2).

Synonyms

HK2;HKII;HXK2;hexokinase-2

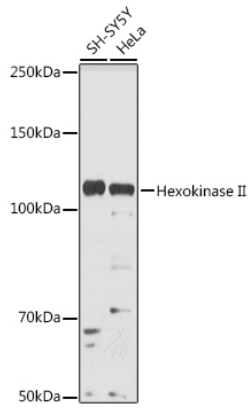
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using Hexokinase II antibody (A0994) at 1:1000 dilution.

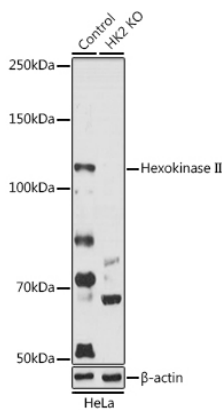
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of extracts from normal (control) and Hexokinase II knockout (KO) HeLa cells, using Hexokinase II antibody (A0994) at 1:1000 dilution.

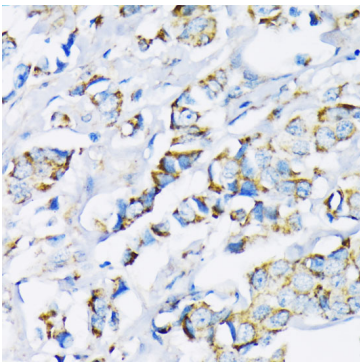
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

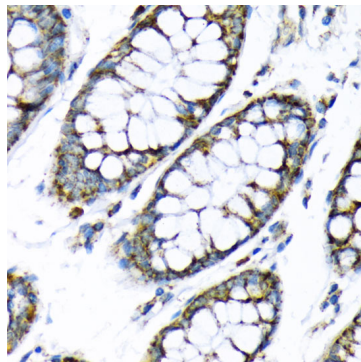
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

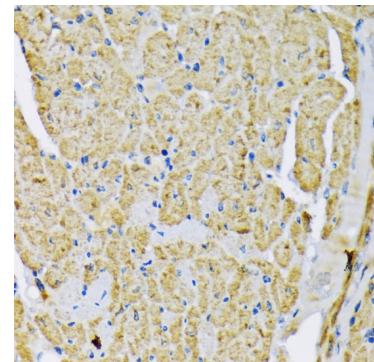
Exposure time: 90s.



Immunohistochemistry of paraffin-embedded human breast cancer using Hexokinase II antibody (A0994) at dilution of 1:200 (40x lens).

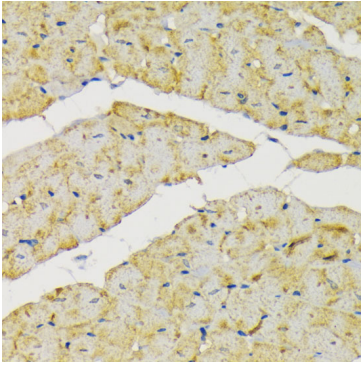


Immunohistochemistry of paraffin-embedded human colon using Hexokinase II antibody (A0994) at dilution of 1:200 (40x lens).

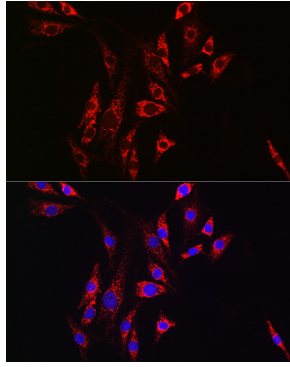


Immunohistochemistry of paraffin-embedded mouse heart using Hexokinase II antibody (A0994) at dilution of 1:200 (40x lens).

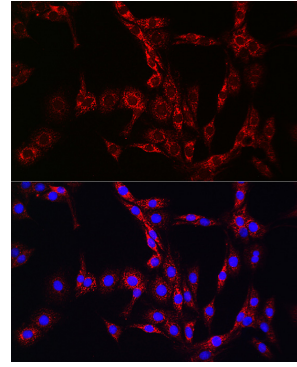
Validation Data



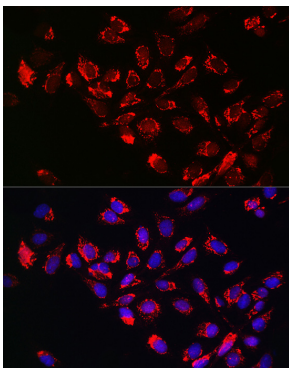
Immunohistochemistry of paraffin-embedded rat heart using Hexokinase II antibody (A0994) at dilution of 1:200 (40x lens).



Immunofluorescence analysis of NIH-3T3 cells using [KO Validated] Hexokinase II Rabbit pAb (A0994) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using [KO Validated] Hexokinase II Rabbit pAb (A0994) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using [KO Validated] Hexokinase II Rabbit pAb (A0994) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.