

## HK1 Monoclonal Antibody

### Description

<b>Product type</b>	Antibody
<b>Code</b>	BT-MCA2322
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1
<b>Size</b>	100 $\mu$ L, 50 $\mu$ L
<b>Immunogen</b>	Purified recombinant fragment of human HK1 expressed in E. Coli.
<b>Mol wt</b>	102kDa
<b>Species reactivity</b>	Human,Rat,Mouse
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB,IHC,ICC
<b>Concentration</b>	N/A
<b>Full name</b>	N/A
<b>Synonyms</b>	HK1;HXK1;HK1-ta;HK1-tb;HK1-tc;HK1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

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. HK I has been shown to be expressed in brain, kidney and heart tissues as well as in hepatoma cell lines.

### Recommended Dilution

WB: 1:500 - 1:2000

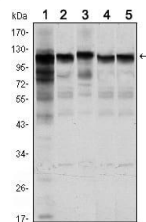
IHC-p: 1:200 - 1:1000

ICC: 1:200 - 1:1000

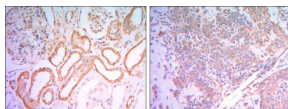
ELISA: 1:10000

Not yet tested in other applications.

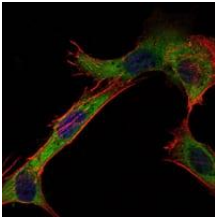
### Images



Western blot analysis using HK1 mouse mAb against Jurkat (1), HeLa (2), HepG2 (3), MCF-7 (4) and PC-12 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded human salivary gland tissues (left) and kidney tissues (right) using HK1 mouse mAb with DAB staining.



Immunofluorescence analysis of NIH/3T3 cells using HK1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

### Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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