

## HXK II Mouse mAb

CatalogNo: YM1050

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat, Pig

#### Applications

- WB, FC

#### MW

- 102kD (Calculated)

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:1000-1:2000**

**FC 1:100-1:500**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Monoclonal

**Clone Number** 19D3

### Immunogen Information

**Immunogen** Purified recombinant human HXK II (N-terminus) protein fragments expressed in E.coli.

**Specificity** HXK II Monoclonal Antibody detects endogenous levels of HXK II protein.

### Target Information

**Gene name** HK2

**Protein Name** Hexokinase-2

Organism	Gene ID	UniProt ID
Human	<a href="#">3099</a> ;	<a href="#">P52789</a> ;
Mouse	<a href="#">15277</a> ;	<a href="#">O08528</a> ;
Rat	<a href="#">25059</a> ;	<a href="#">P27881</a> ;

**Cellular Localization**

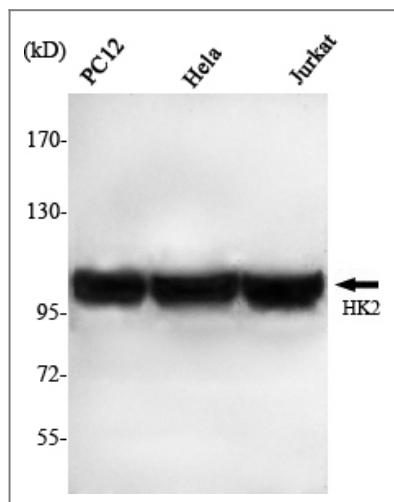
Mitochondrion outer membrane ; Peripheral membrane protein . Cytoplasm , cytosol . The mitochondrial-binding peptide (MBP) region promotes association with the mitochondrial outer membrane (PubMed:29298880) . The interaction with the mitochondrial outer membrane via the mitochondrial-binding peptide (MBP) region promotes higher stability of the protein (PubMed:29298880) . Release from the mitochondrial outer membrane into the cytosol induces permeability transition pore (PTP) opening and apoptosis (PubMed:18350175) . .

**Tissue specificity** Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.

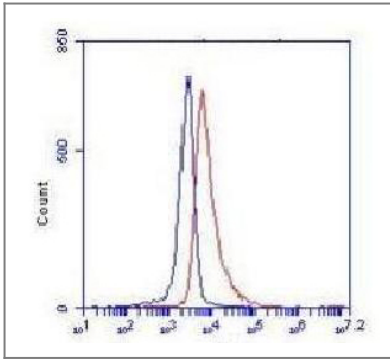
**Function**

Catalytic activity:ATP + D-hexose = ADP + D-hexose 6-phosphate. ,Domain:The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. ,enzyme regulation:Hexokinase is an allosteric enzyme inhibited by its product Glc-6-P. ,miscellaneous:In vertebrates there are four major glucose-phosphorylating isoenzymes , designated hexokinase I , II , III and IV (glucokinase) . ,online information:Hexokinase entry ,pathway:Carbohydrate metabolism; hexose metabolism. ,polymorphism:Although found in NIDDM patients , genetic variations of HK2 do not contribute to the disease. ,similarity:Belongs to the hexokinase family. ,subcellular location:Its hydrophobic N-terminal sequence may be involved in membrane binding. ,subunit:Monomer. ,tissue specificity:Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle. ,

**Validation Data**



Western Blot analysis using HXK II Monoclonal Antibody against PC12, HeLa, Jurkat cell lysate.



Flow cytometric analysis of K562 cells stained with HXK II Monoclonal Antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.

## Contact information

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Please scan the QR code to access additional product information:  
**HXK II Mouse mAb**

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