HXK II Mouse mAb

CatalogNo: YM1050

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat,Pig

Applications
- WB,FC,

MW
- 102kD (Calculated)

Recommended Dilution Ratios

WB 1:1000-1:2000
FC 1:100-1:500
Not yet tested in other applications.

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.

Basic Information

Clonality	Monoclonal

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

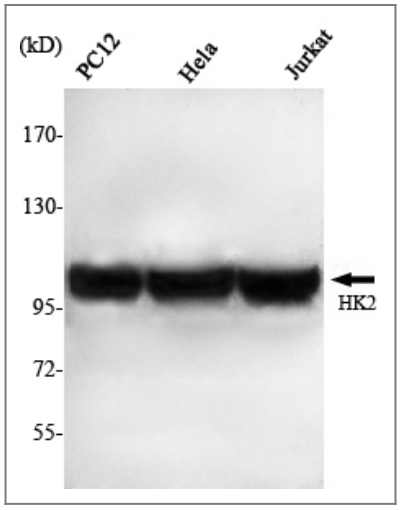
Organism	Gene ID	UniProt ID
Human	3099;	P52789;
Mouse	15277;	O08528;
Rat	25059;	P27881;

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). .

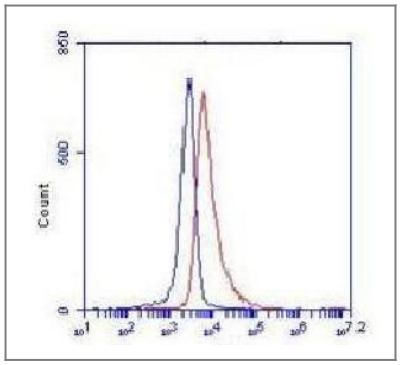
Tissue specificity Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.

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