HXK II Mouse mAb

CatalogNo: YM0350 Orthogonal Validated

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,FC,ELISA

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 1:500-1:2000
IHC 1:200-1:1000
Flow Cyt 1:200-1:400
ELISA 1:10000
IF 1:50-200

Basic Information

Clonality	Monoclonal
Clone Number	5F10

Immunogen Information

Immunogen	Purified recombinant fragment of human HXK II 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

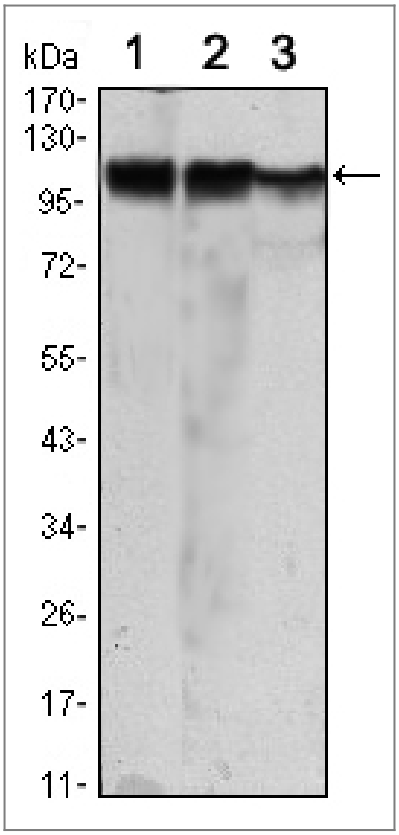
Organism	Gene ID	UniProt ID
Human	3099;	P52789;
Mouse		O08528;

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). .

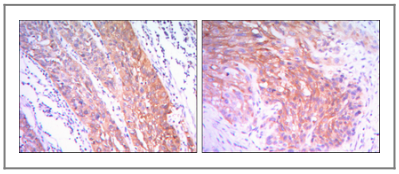
Tissue specificity Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.

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.,

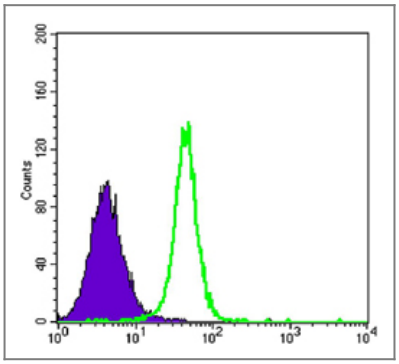
Validation Data



Western Blot analysis using HXK II Monoclonal Antibody against Jurkat (1), HeLa (2) and HEK293 (3) cell lysate.



Immunohistochemistry analysis of paraffin-embedded esophagus cancer tissues (left) and human lung cancer (right) with DAB staining using HXK II Monoclonal Antibody.



Flow cytometric analysis of K562 cells using HXK II Monoclonal Antibody (green) and negative control (purple).

Contact information

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