

## Hexokinase II mouse mAb

YM1298 Catalog No:

Rat;Mouse;Monkey Reactivity:

**Applications: WB** 

HXK II Target:

Fields: >>Glycolysis / Gluconeogenesis;>>Fructose and mannose

metabolism;>>Galactose metabolism;>>Starch and sucrose

metabolism;>>Amino sugar and nucleotide sugar metabolism;>>Neomycin, kanamycin and gentamicin biosynthesis;>>Metabolic pathways;>>Carbon

metabolism;>>Biosynthesis of nucleotide sugars;>>HIF-1 signaling

pathway;>>Insulin signaling pathway;>>Type II diabetes mellitus;>>Carbohydrate digestion and absorption;>>Shigellosis;>>Central carbon metabolism in cancer

Gene Name: hk2

**Human Gene Id:** 3099

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

Recombinant human Hexokinase II protein. Immunogen:

P52789

O08528

**Specificity:** This antibody detects endogenous levels of Hexokinase II and does not cross-

react with related proteins.

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

Source: Monoclonal, Mouse

**Dilution:** wb 1:500

**Purification:** The antibody was affinity-purified from mouse ascites by affinity-

chromatography using epitope-specific immunogen.

1 mg/ml



Sort:

No4:

7333

Mouse

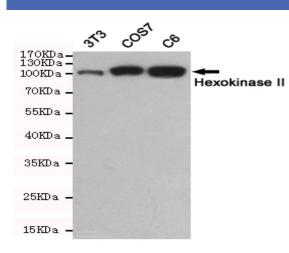
-15°C to -25°C/1 year(Do not lower than -25°C) Storaget Stability: Observed Band: 102kD Glycolysis / Gluconeogenesis; Fructose and mannose metabolism; Galactose **Cell Pathway:** metabolism; Starch and sucrose metabolism; Amino sugar and nucleotide sugar metabolism;Insulin\_Receptor;Type II diabetes mellitus; Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first **Background:** 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. [provided by RefSeg, Apr 2009], **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 glucosephosphorylating 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 hex Subcellular Mitochondrion outer membrane; Peripheral membrane protein. Cytoplasm, cytosol. The mitochondrial-binding peptide (MBP) region promotes association Location: 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). . Predominant hexokinase isozyme expressed in insulin-responsive tissues such **Expression:** as skeletal muscle. Tag: hot

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**Most**ifications:

Unmodified

## **Products Images**



Western blot detection of Hexokinase II in 3tT3,COS7 and C6 cell lysates using Hexokinase II mouse mAb(dilution 1:500).Predicted band size:102kDa.Observed band size:102kDa.