

## Immunotag™ Hexokinase II mouse mAb

Antibody Specification	
Catalog No.	ITM1299
Product Description	Immunotag™ Hexokinase II mouse mAb
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Hexokinase II
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB
Recommended Dilution	wb 1:1000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant human Hexokinase II protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of Hexokinase II and does not cross-react with related proteins.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	hk2
Accession No.	P52789 O08528
Alternate Names	DKFZp686M1669 ;Hexokinase 2 ;Hexokinase 2 muscle ;Hexokinase type II ;Hexokinase-2 ;HK 2 ;HK II ;HK2 ;HKII ;HxK 2 ;HxK2 ;HxK2_HUMAN ;Muscle form hexokinase .

## Antibody Specification

Description	hexokinase 2(HK2) Homo sapiens Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first 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 RefSeq, Apr 2009],
Cell Pathway/ Category	Glycolysis / Gluconeogenesis,Fructose and mannose metabolism,Galactose metabolism,Starch and sucrose metabolism,Amino sugar and nucleotide sugar metabolism,Insulin_Receptor,Type II diabetes mellitus,
Protein Expression	Blood,Endometrium carcinoma cell line,Muscle,Placenta,Skeletal muscle,Testis,
Subcellular Localization	cell,mitochondrial outer membrane,cytosol,membrane,
Protein 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.