

# Anti-Hexokinase II Antibody

Mouse Anti Human Monoclonal Antibody Catalog # AP53398

## **Product Information**

Application	WB
Primary Accession	<u>P52789</u>
Other Accession	<u>NM_000189</u>
Reactivity	Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Immunogen	Recombinant human Hexokinase II protein
Purification	Affinity purified
Calculated MW	102380

### **Additional Information**

Gene ID	3099
Other 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.
Dilution	WB~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

#### **Protein Information**

Name	HK2 ( <u>HGNC:4923</u> )
Function	Catalyzes the phosphorylation of hexose, such as D-glucose and D-fructose, to hexose 6-phosphate (D-glucose 6-phosphate and D- fructose 6-phosphate, respectively) (PubMed: <u>23185017</u> , PubMed: <u>26985301</u> , PubMed: <u>29298880</u> ). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed: <u>29298880</u> ). Plays a key role in maintaining the integrity of the outer mitochondrial membrane by preventing the release of apoptogenic molecules from the intermembrane space and subsequent apoptosis (PubMed: <u>18350175</u> ).
Cellular Location	Mitochondrion outer membrane; Peripheral membrane protein. Cytoplasm,

cytosol Note=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 Location** 

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

#### 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.