

Anti-Hexokinase II Antibody
Mouse Anti Human Monoclonal Antibody
Catalog # AP53398**Specification**

Anti-Hexokinase II Antibody - Product Information

Application	WB
Primary Accession	P52789
Other Accession	NM_000189
Reactivity	Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Immunogen	Recombinant human Hexokinase II protein.
Purification	Affinity purified
Calculated MW	102 KDa

Anti-Hexokinase II Antibody - 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.

Anti-Hexokinase II Antibody - Protein Information**Name** HK2 ([HGNC:4923](#))**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: [23185017](http://www.uniprot.org/citations/23185017), PubMed: [26985301](http://www.uniprot.org/citations/26985301), PubMed: [29298880](http://www.uniprot.org/citations/29298880)). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed: [29298880](http://www.uniprot.org/citations/29298880)). 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:18350175).

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

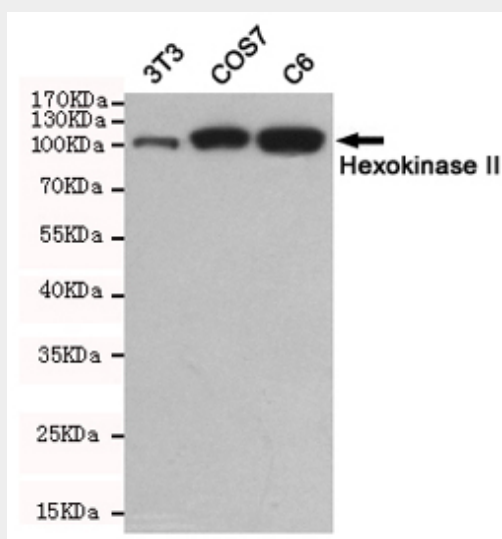
Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle

Anti-Hexokinase II Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Hexokinase II Antibody - 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.