

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

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**Anti-Hexokinase II Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P52789</a>
Other Accession	<a href="#">NM_000189</a>
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;HXX2\_HUMAN;Muscle form hexokinase.

**Dilution**

WB~~1:500

**Format**

Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**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:&lt;a href="http://www.uniprot.org/citations/23185017" target="\_blank"&gt;23185017&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/26985301" target="\_blank"&gt;26985301&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/29298880" target="\_blank"&gt;29298880&lt;/a&gt;). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed:&lt;a href="http://www.uniprot.org/citations/29298880" target="\_blank"&gt;29298880&lt;/a&gt;). 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:<a href="http://www.uniprot.org/citations/18350175" target="\_blank">18350175</a>).

#### 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

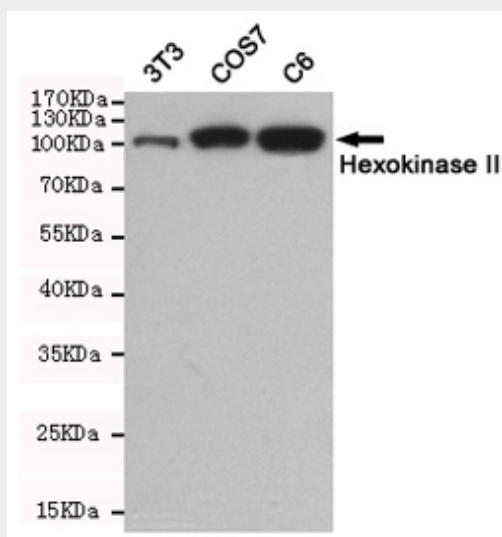
Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle

### 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.