

**Hexokinase II Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AP52731****Specification**

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**Hexokinase II Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P52789</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>102 KDa</b>

**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~~1:1000

**Format**

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

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

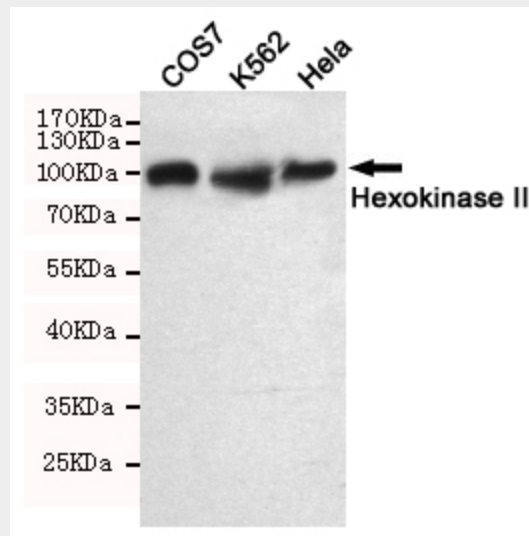
Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle

#### 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](#)

#### Hexokinase II Antibody - Images



Western blot detection of Hexokinase II in COS7, K562 and HeLa cell lysates using Hexokinase II mouse mAb (1:1000 diluted). Predicted band size: 102KDa. Observed band size: 102KDa.

#### Hexokinase II Antibody - References

- Deeb S.S., et al. *Biochem. Biophys. Res. Commun.* 197:68-74(1993).  
Lehto M., et al. *Diabetologia* 38:1466-1474(1995).  
Malkki M., et al. Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.  
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Shinohara Y., et al. *Cancer Lett.* 82:27-32(1994).