

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

**Specification**

**Hexokinase II Antibody - Product Information**

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

**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~~1:1000

**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

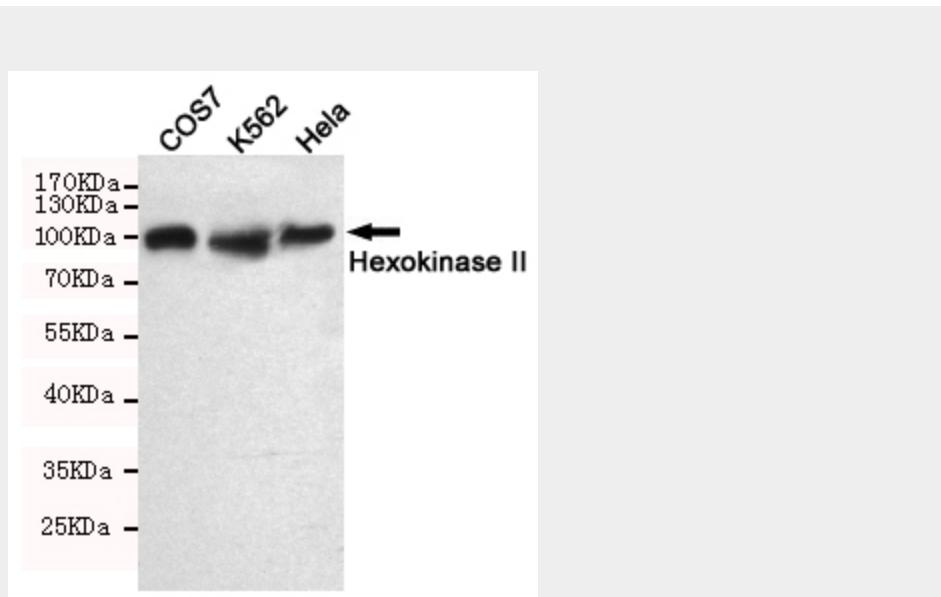
Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle

#### 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).