

# Hexokinase II Antibody

Purified Mouse Monoclonal Antibody (Mab)  
Catalog # AP52731

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P52789</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	102380

## Additional Information

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<b>Gene ID</b>	3099
<b>Other Names</b>	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 .
<b>Dilution</b>	WB~~1:1000
<b>Format</b>	PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	HK2 ( <a href="#">HGNC:4923</a> )
<b>Function</b>	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="#">23185017</a> , PubMed: <a href="#">26985301</a> , PubMed: <a href="#">29298880</a> ). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed: <a href="#">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="#">18350175</a> ).
<b>Cellular Location</b>	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).

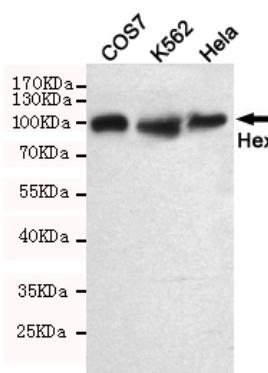
#### Tissue Location

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

## 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).

## 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.

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