

Hexokinase II Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52731

Product Information

Application	WB
Primary Accession	P52789
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	102380

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	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.

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 , PubMed: 26985301 , PubMed: 29298880). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed: 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).

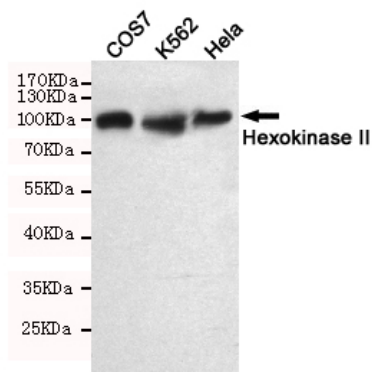
Tissue Location

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

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.

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