

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

Specification

Hexokinase II Antibody - Product Information

Application	WB
Primary Accession	P52789
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 ;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: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

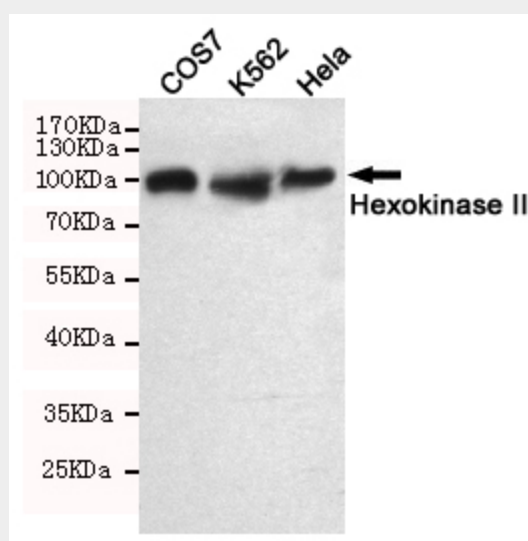
Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle

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).