10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Hexokinase II Antibody
Mouse Anti Human Monoclonal Antibody
Catalog # AP53398

Specification

Anti-Hexokinase II Antibody - Product Information

Application	**WB**
Primary Accession	P52789
Other Accession	NM_000189
Reactivity	**Mouse, Rat, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Immunogen	**Recombinant human Hexokinase II protein.**
Purification	**Affinity purified**
Calculated MW	**102 KDa**

Anti-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~~1:500

Format
Purified mouse monoclonal antibody in 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

Anti-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).

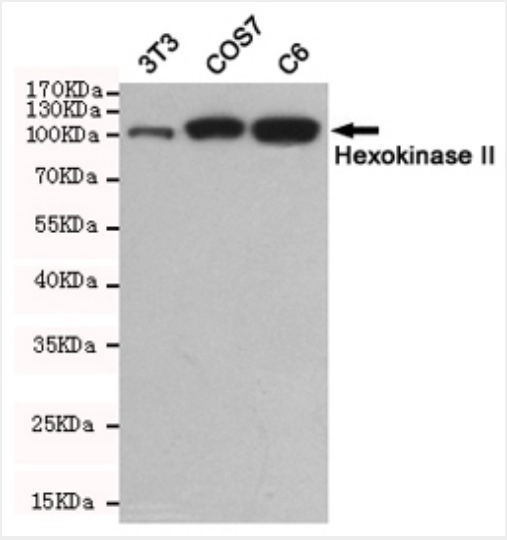
Tissue Location
Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle

Anti-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 Cytomety
- Cell Culture

Anti-Hexokinase II Antibody - Images



Western blot detection of Hexokinase II in 3tT3,COS7 and C6 cell lysates using Hexokinase II mouse mAb(dilution 1:500).Predicted band size:102kDa.Observed band size:102kDa.