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Anti-Hexokinase II Antibody

Mouse Anti Human Monoclonal Antibody
Catalog # AP53398

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	102380

Additional Information

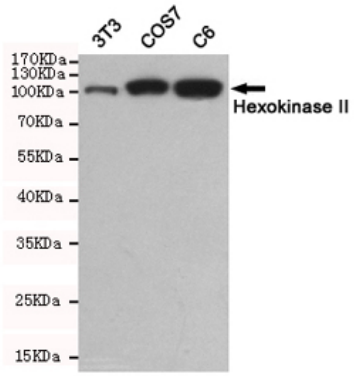
Gene ID	3099
Other Names	DKFZp686M1669;Hexokinase 2;Hexokinase 2 muscle;Hexokinase type II;Hexokinase-2;HK 2;HK II;HK2;HKII;HxK 2;HxK2;HXK2_HUMAN;Muscle form hexokinase.
Dilution	WB~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short 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

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.

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