HK2 (Hexokinase II) Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP8140f

Specification

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - Product Information

Primary Accession  P52789
Other Accession  NP_000180

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - Additional Information

Gene ID 3099

Other Names
Hexokinase-2, Hexokinase type II, HK II, Muscle form hexokinase, HK2

Target/Specificity
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP8140f>AP8140f</a> was selected from the Center region of human HK2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - Protein Information

Name HK2 (HGNC:4923)

Function
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

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - Images

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - Background

In vertebrates there are four major glucose-phosphorylating isoenzymes, designated hexokinase I, II, III, and IV. Hexokinase is an allosteric enzyme inhibited by its product GLC-6-P. Hexokinase activity is involved in the first step in several metabolic pathways. HK3 is bound to the outer mitochondrial membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding. It is the predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle. The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Although found in NIDDM patients, genetic variations of HK2 do not contribute to the disease.

HK2 (Hexokinase II) Antibody (Center) Blocking peptide - References