

Mouse Anti-Hexokinase II antibody

SLM-51659M

Product Name	Hexokinase II
Chinese Name	己糖激酶 2 单克隆抗体
Alias	Hexokinase II; Hexokinase 2 muscle; Hexokinase type II; Hexokinase-2; HK 2; HK II; HK2; HKII; HxK 2; HxK2; HXK2_HUMAN; Muscle form hexokinase; DKFZp686M1669.
Research Area	Tumour Cardiovascular Chromatin and nuclear signals Signal transduction transcriptional regulatory factor The new supersedes the old Mitochondrion
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	S2G6
React Species	Human
Applications	WB=1:500-1000,IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	101kDa
Cellular localization	cytoplasmic The cell membrane Mitochondrion
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human HK2 (Hexokinase II) between 1-170 amino acids.
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

The hexokinases utilize Mg-ATP as a phosphoryl donor to catalyze the first step of intracellular glucose metabolism, the conversion of glucose to glucose-6-phosphate. Four hexokinase isoenzymes have been identified, including hexokinase I (HXK I), hexokinase II (HXK II), hexokinase III (HXK III) and hexokinase IV (HXK IV, also designated glucokinase or GCK). Hexokinases I-III each contain an N-terminal cluster of hydrophobic amino acids. Glucokinase lacks the N-terminal hydrophobic cluster. The hydrophobic cluster is thought to be necessary for membrane binding. This is substantiated by the finding that glucokinase has lower affinity for glucose than do the other hexokinases. HXK I has been shown to be expressed in brain, kidney and heart tissues as well as in hepatoma cell lines. HXK II is involved in the uptake and utilization of glucose by adipose and skeletal tissues. Of the hexokinases, HXK III has the highest affinity for glucose. Glucokinase is expressed in pancreatic beta cells where it functions as a glucose sensor, determining the “set point” for insulin secretion.

Function:

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

Subunit:

Monomer.

Product Detail

Subcellular Location:

Mitochondrion outer membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding.

Tissue Specificity:

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

Similarity:

Belongs to the hexokinase family.

SWISS:

P52789

Gene ID:

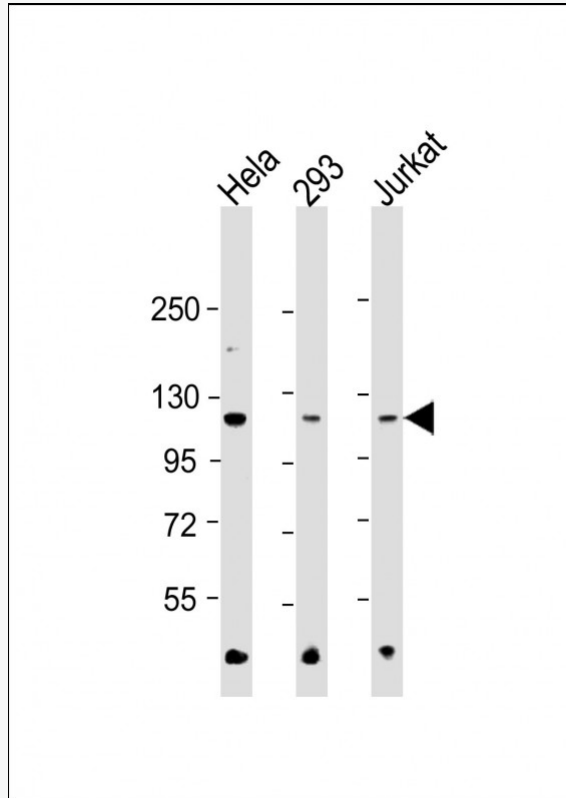
3099

Database links:

[Entrez Gene: 3099](#) Human

[SwissProt: P52789](#) Human

Product Picture



Sample:

Lane 1: HeLa cell lysates

Lane 2: 293 cell lysates

Lane 3: Jurkat cell lysates

Primary: Anti-Hexokinase II (SLM-51659M) at 1/500~1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 101 kD

Observed band size: 101 kD



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