SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-Hexokinase II/HRP Conjugated antibody

Catalog Number: SL9455R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Hexokinase II/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human Hexokinase II/HxK2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit,Sheep)
Background:	background: 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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. **Subunit:** Monomer (By similarity). **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. **Database links:** **Entrez Gene:** 3099 Human Omim: 601125 Human **SwissProt:** P52789 Human **Unigene:** 406266 Human **Unigene:** 591588 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.