## HK1 polyclonal antibody (A01)

Catalog # H00003098-A01 Size 50 uL

### Applications



Western Blot detection against Immunogen (37.11 KDa) .

Specification	
Product Description	Mouse polyclonal antibody raised against a partial recombinant HK1.
Immunogen	HK1 (NP_277031, 101 a.a. ~ 200 a.a) partial recombinant protein with GST tag.
Sequence	NQNVHMESEVYDTPENIVHGSGSQLFDHVAECLGDFMEKRKIKDKKLPVGFTFSFPCQQSKIDE AILITWTKRFKASGVEGADVVKLLNKAIKKRGDYDA
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 KDa).
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

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- Western Blot (Recombinant protein)
  <u>Protocol Download</u>
- ELISA

#### Gene Info — HK1

Entrez GenelD	<u>3098</u>
GeneBank Accession#	<u>NM_033496</u>
Protein Accession#	<u>NP_277031</u>
Gene Name	HK1
Gene Alias	HK1-ta, HK1-tb, HK1-tc, HKI, HXK1
Gene Description	hexokinase 1
Omim ID	142600
Gene Ontology	Hyperlink
Gene Summary	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most gluco se metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to t he outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in five transcript vari ants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. A sixth transcript v ariant has been described, but due to the presence of several stop codons, it is not thought to encode a protein. [provided by RefSeq
Other Designations	OTTHUMP00000019725 brain form hexokinase glycolytic enzyme

#### Pathway

- <u>Amino sugar and nucleotide sugar metabolism</u>
- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide

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#### **Product Information**

- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Fructose and mannose metabolism
- Galactose metabolism
- <u>Glycolysis / Gluconeogenesis</u>
- Insulin signaling pathway
- Metabolic pathways
- <u>Starch and sucrose metabolism</u>
- <u>Streptomycin biosynthesis</u>
- Type II diabetes mellitus

#### Disease

- <u>Alzheimer Disease</u>
- Attention Deficit Disorder with Hyperactivity
- Diabetes Mellitus
- Diseases in Twins
- Genetic Predisposition to Disease
- <u>Obesity</u>
- <u>Tobacco Use Disorder</u>