



Anti-HK1 (aa 101-200) polyclonal antibody (DPAB-DC1560)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the 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 variants 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 variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein. |
| Immunogen | HK1 (NP_277031, 101 a.a. ~ 200 a.a) partial recombinant protein with GST tag. The sequence is NQNVHMESEVYDTPENIVHSGSQLFDHVAECLGDFMEKRKIKDKKLPVGFTFSFPCQQS KIDEAILITWTKRFKASGVEGADVVKLLNKAIKKRGDYDA |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | HK1 hexokinase 1 [Homo sapiens (human)] |
| Official Symbol | HK1 |
| Synonyms | HK1; hexokinase 1; HKD; HKI; HXK1; HMSNR; HK1-ta; HK1-tb; HK1-tc; hexokinase-1; HK I; glycolytic enzyme; hexokinase type I; brain form hexokinase; |
| Entrez Gene ID | 3098 |
| Protein Refseq | NP_000179 |
| UniProt ID | A8K7J7 |
| Chromosome Location | 10q22 |
| Pathway | Amino sugar and nucleotide sugar metabolism; Carbohydrate digestion and absorption; Cori Cycle; Fructose and mannose metabolism |
| Function | ATP binding; fructokinase activity; glucokinase activity; hexokinase activity |