

DNAxPAb

Hard-to-Find
Antibody

HK1 DNAxPab

Catalog # H00003098-W01P

Size 200 ug

Specification

Product Description Rabbit polyclonal antibody raised against a full-length human HK1 DNA using DNAx™ Immune technology.

Technology [DNAx™ Immune](#)

Immunogen Full-length human DNA

Sequence MIAAQLLAYFTELKDDQVKKIDKYLAMRLSDETLDIMTRFRKEMKNGLSRDFNPTATVKMLPTF VRSIPDGSEKGFIALDLGGSSFRILRVQVNHEKNQNVHMESEVYDTPENIVHGSGSQLFDHVAE CLGDFMEKRKIKDKKLPVGFTFSFPCQQSKIDEAILITWTKRFKASGVEGADVVKLLNKAIKKRGD YDANIVAVVNDTVGTMMTTCGYDDQHCEVGLIIGTGTNACYMEELRHIDLVEGDEGRMCINTEWGAF GDDGSLEDIRTEFDREIDRGS LNPGKQLFEK MVSGMYLGELVRLILVKMAKEGLLFEGRITPELLTR GKFN TSDVSAIEKNKEGLHNAKEILTRLGVESD DDCVSVQHVCTVSFRSANLVAATLGAILNRLR DNKGTPRLRTTVGVDGSLYKTHPQYSRRFHKTLRRLVPDSDVRFLLESGSGKGAAMVTAVAYR LAEQHRQIEETLAHFHLTKDMLLEVKKRMRAEMELGLRKQTHNNNAVVKMLPSFVRRTPDGTENG DFLALDLGGTNFRVLLVKIRSGKKRTVEMHNKIYAIP EIMQGTGEELFDHIVSCISDFLDYMGKGPR MPLGFTFSFPCQQTSLDAGILITWTKGFKATDCVGHDVVTLRLDAIKRREEFDLDVVAVVNDTVGT MMTCA YEEPTCEVGLVGTGSNACYMEEMKNVEMVEGDQGQMCINMEWGAFGDNGCLDDIRTH YDRLVDEYSLNAGKQRYEKMISGMYLGEVNRILIDFTKKGFLFRGQISETLKTRGIFETKFLSQIESD RLALLQVRAILQQLGLNSTCDDSVLKVTCGVVSRRAAQLCGAGMAAVVDKIRENRGLDRLNVTV GVDGTL YKLHPHFSRIMHQT VKELSPKCNVSFLLSEDSGSGKGAALITAVGVRLRTEASS

Host Rabbit

Reactivity Human

Purification Protein A

Quality Control Testing Antibody reactive against mammalian transfected lysate.

Storage Buffer In 1x PBS, pH 7.4

Storage Instruction Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — HK1

Entrez GeneID [3098](#)

GeneBank Accession# [BC008730](#)

Protein Accession# [AAH08730](#)

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 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. [provided by RefSeq]

Other Designations OTTHUMP00000019725|brain form hexokinase|glycolytic enzyme

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [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](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Fructose and mannose metabolism](#)
- [Galactose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [Starch and sucrose metabolism](#)
- [Streptomycin biosynthesis](#)
- [Type II diabetes mellitus](#)

Disease

- [Alzheimer Disease](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Diabetes Mellitus](#)
- [Diseases in Twins](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Tobacco Use Disorder](#)