

Recombinant Full Length Human HK2 Protein, GST-tagged

Cat. No. HK2-3545HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human HK2 full-length ORF (NP_000180.2, 1 a.a. - 917 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	917 amino acids
Description	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq]
Molecular Mass	128.8 kDa
AA Sequence	MIASHLLAYFFTELNHDQVQKVDQYLYHMRLSDETLLEISKRFRKEMEKGLGATTHP TAAVKMLPTFVVRSTPDGTEHGEFLALDLGGTNFRVLWVKVTDNGLQKVEMENQIYAI PEDIMRGSQTQLFDHIAECLANFMDKLQIKDKKLPLGFTFSFPCHQTKLDESFLVSW TKGFKSSGVEGRDVVALIRKAIQRRGDFDIDIVAVVNDTVGTMTCGYDDHNCEIGLI VGTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQEIDMG SLNPGKQLFEKMISGMYMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDI EGEKDGIRKAREVLMRLGLDPTQEDCVATHRICQIVSTRSASLCAATLAAVLQRIKEN

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KGEERLRSTIGVDGSVYKKHPHFAKRLHKTVRRLVPGCDVRFLRSEDGSGKGAAMV
TAVAYRLADQHRARQKTLEHLQLSHDQLLEVKRRMKVEMERGLSKETHASAPVKML
PTYVCATPDGTEKGDFLALDLGGTNFRVLLVRVRNGKWGGVEMHNKIYAIPQEVMH
GTGDELFDHIVQCIADFLEYMGMGVSLPLGFTFSFPCQQNSLDESILLKWKGFKA
SGCEGEDVVTLLKEAIHRREEFDLDVVAVVNDTVGTMTCGFEDPHCEVGLIVGTG
SNACYMEEMRNVELVEGEEGRMCVNMEWGAFGDNGCLDDFRTEFDVAVDELSLN
PGKQRFKEMISGMYLGEIVRNILIDFTKRGLLFRGRISERLKTRGIFETKFLSQIESDCL
ALLQVRAILQHLGLESTCDDSIIVKEVCTVARRAAQLCGAGMAAVVDRIENRGLDA
LKVTVGVDGTLYKLHPHFAKVMHETVKDLAPKCDVSFLQSEDGSGKGAALITAVACR
IREAGQR

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HK2 hexokinase 2 [Homo sapiens]
Official Symbol	HK2
Synonyms	HK2; hexokinase 2; hexokinase-2; HK II; hexokinase type II; hexokinase-2, muscle; muscle form hexokinase; HKII; HXK2; DKFZp686M1669;

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Gene ID	3099
mRNA Refseq	NM_000189
Protein Refseq	NP_000180
MIM	601125
UniProt ID	P52789

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