

Human recombinant protein Hexokinase 2
Hexokinase type II, Muscle form hexokinase, HK2.
Catalog # PBV10546r

Specification

Human recombinant protein Hexokinase 2 - Product info

Primary Accession	P52789
Concentration	1
Calculated MW	104.1 kDa KDa

Human recombinant protein Hexokinase 2 - Additional Info

Gene ID	3099
Gene Symbol	HXK2

Other Names

Hexokinase type II, Muscle form hexokinase, HK2.

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MIASHLLAYF FTELNHDQVQ KVDQYLYHMR LSEDTLLEIS KRFRKEMEGK LGATTHTPTAA VKMLPTFVRS TPDGTEHGEF LALDLGGTNF RVLWVKVTDN GLQKVEMENQ IYAIPEDIMR GSGTQLFDHI AECLANFMDK LQIKDKKLPL GFTFSFPCHQ TKLDESFLVS WTKGFKSSGV EGRDVVALIR KAIQRRGDFD IDIVAVVNDT VGTMMTCGYD DHNCEIGLIV GTGSNACYME EMRHIDMVEG DEGRMCINME WGAFGDDGSL NDIRTEFDQE IDMGSLNPGK QLFKEMISGM YMGELVRLIL VKMAKEELLF GSKLSPELLN TGRFETKDIS DIEGEKDGIR KAREVLMRLG LDPTQEDCVA THRICQIVST RSASLCAATL AAVLQRIKEN KGEERLRSTI GVDGSVYKKH PHFAKRLHKT VRRVPGCDV RFLRSEDGSG KGAAMVTAVA YRLADQHRAR QKTLEHLQLS HDQLLEVKRR MKVEMERGLS KETHASAPVK MLPTYVCATP DGTEKGDFLA LDLGGTNFRV LLVRVRNGKW GGVEMHNKIY AIPQEVMHGT GDELFDHIVQ CIADFLEYMG MKGVSLPLGF TFSFPCQQNS LDESILLKWT KGFKASGCEG EDVVTLLKEA IHRREEFDLD VVAVVNDTVG TMMTCGFEDP HCEVGLIVGT GSNACYMEEM RNVELVEGEE GRMCVNM EWG AFGDNGCLDD FRTEFDVAVD ELSLNPGKQR FEKMISGMYL GEIVRNILID FTKRGLLFRG RISERLKTRG IFETKFLSQI ESDCLALLQV RAILQHGLGLE STCDDSIIVK

EVCTVVARRA AQLCGAGMAA VVDRIENRG
LDALKVTVGV DGTLYKLHPH FAKVMHETVK
DLAPKCDVSF LQSEDGSGKG AALITAVACR
IREAGQR

Format
Liquid

Storage
-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

Human recombinant protein Hexokinase 2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human recombinant protein Hexokinase 2 - Images

Human recombinant protein Hexokinase 2 - Background

Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group from ATP to glucose to form glucose-6-phosphate and ADP. In vertebrates there are four major glucose-phosphorylating isoenzymes, designated hexokinase I, II, III, and IV. This enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase 2 is found in the skeletal muscle and includes hydrophobic N-terminal sequence capable of targeting the hexokinase to mitochondria. It also constitutes the principal regulated isoform in many other cell types and is increased in many cancers. Although found in NIDDM patients, genetic variations of HK 2 do not contribute to the disease.

Human recombinant protein Hexokinase 2 - References

Deeb S.S., et al. Biochem. Biophys. Res. Commun. 197:68-74(1993).
Lehto M., et al. Diabetologia 38:1466-1474(1995).
Malkki M., et al. Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Shinohara Y., et al. Cancer Lett. 82:27-32(1994).