

Product datasheet

Recombinant human Hexokinase 1 protein ab85918

2 图像

概述

产品名称	Recombinant人Hexokinase 1 protein
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

种属	Human
序列	<p>MGSSHHHHHH SSGLVPRGSH MIAAQLLAYY FTELKDDQVK KIDKLYAMR LSDETLIDIM TRFRKEMKNG LSRDFNPTAT VKMLPTFVRS IPDGSEKGF IALDLGGSSF RILRVQVNHE KNQNVHMESE VYDTPENIVH GSGSQLFDHV AECLGDFMEK RKIKDKKLPV GFTFSFPCQQ SKIDEAILIT WTKRFKASGV EGADVVKLLN KAIKKRGDYG ANIVAVVNDT VGTMMTCGYD DQHCEVGLII GTGTNACYME ELRHIDLVEG DEGRMCINTE WGAFGDDGSL EDIRTEFDRE IDRGSLNPGK QLFKEMVSGM YLGELVRLIL VKMAKEGLLF EGRITPELLT RGKFNTSDVS AIEKNKEGLH NAKEILTRLG VEPSDDDCVS VQHVCTIVSF RSANLVAATL GAILNRLRDN KGTPRLRTTV GVDGSLYKTH PQYSRRFHKT LRRLLVPDSV RFLLESSESGS KGAAMVTAVA YRLAEQHRQI EETLAHFHLT KDMLLEVKKR MRAEMELGLR KQTHNNAVVK MLPSFVR RTP DGTENGDFLA LDLGGTNFRV LLVKIRSGKK RTVEMHNKIY AIPIEIMQGT GEELFDHIVS CISDFLDYMG IKGPRMPLGF TFSFPCQQTS LDAGILITWT KGFKATDCVG HDVVTLRDA IKRREEFDLD VVAVVNDTVG TMMTCAYEEP TCEVGLIVGT GSNACYMEEM KNVEMVEGDQ GQMCINMEWG AFGDNGCLDD IRTHYDRLVD EYSLNAGKQR YEKMISGMYL GEIVRNILID</p>

FTKKGFLFRG QISETLKTRG IFETKFLSQI
ESDRLLALLQV RAILQQLGLN STCDDSilV
TVCGVVSRRRA AQLCGAGMAA VVDKIRENRG
LDRLNVTGV DGTLYKLHPH FSRIMHQTvk
ELSPKCNVsf LLEDGSGKG AALITAVGVR LRTEASS

氨基酸 1 to 917

标签 His tag N-Terminus

技术指标

Our [Abpromise guarantee](#) covers the use of **ab85918** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生物活性 Specific activity is >2 units/ml obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. In the coupled mode, one unit will produce 1.0 umole of NADPH per minute as glucose is phosphorylated by ATP at pH 7.4 at 25C.

应用 Functional Studies

SDS-PAGE

Western blot

纯度 > 90 % SDS-PAGE.

ab85918 is purified using conventional chromatography techniques.

形式 Liquid

制备和贮存

稳定性和存储 Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Preservative: None

Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0

This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

组织特异性 Isoform 2 is erythrocyte specific. Isoform 3 and isoform 4 are testis-specific.

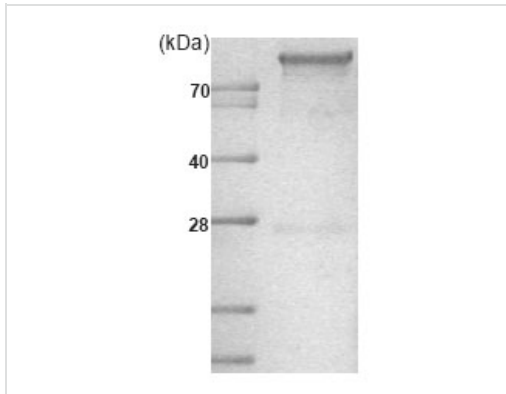
通路 Carbohydrate metabolism; hexose metabolism.

疾病相关 Hexokinase deficiency
Neuropathy, hereditary motor and sensory, Russe type

序列相似性 Belongs to the hexokinase family.
Contains 2 hexokinase domains.

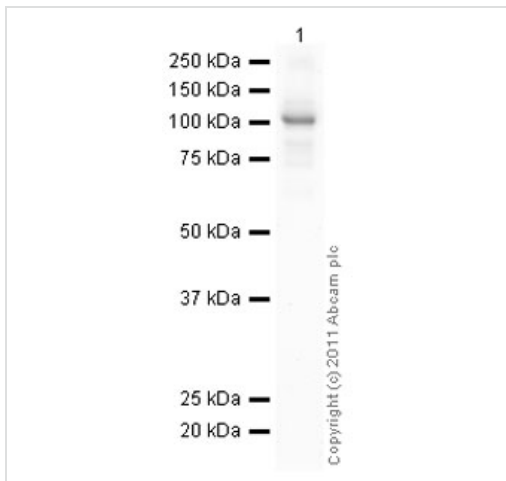
结构域 The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Each domain can bind a single glucose and Gluc-6-P molecule.

细胞定位 Mitochondrion outer membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding.



12% SDS-PAGE showing ab85918 at approximately 104.6kDa.

SDS-PAGE - Hexokinase 1 protein (His tag)
(ab85918)



Anti-Hexokinase 1 antibody (ab65069) at 1/500 dilution + Recombinant human Hexokinase 1 protein (ab85918) at 0.1 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) (ab65484) at 1/5000 dilution
Developed using the ECL technique

Performed under reducing conditions.

Exposure time : 4 minutes

Western blot - Anti-Hexokinase 1 antibody (

[ab65069](#)

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Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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