

Datasheet for ABIN1046871

CKMT1 Protein (AA 40-417, full length) (His tag)



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1 Image

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Overview

| | |
|-------------------------------|--|
| Quantity: | 100 µg |
| Target: | CKMT1 |
| Protein Characteristics: | AA 40-417, full length |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CKMT1 protein is labelled with His tag. |
| Application: | ELISA |

Product Details

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|------------------|---|
| Sequence: | ASERRRLYPP SAEYPLDRKH NNCMASHLTP AVYARLCDKT TPTGWTLDQC IQTGVDNPGH PFIKTVGMVA GDEETYEVFA DLFDPVIQER HNGYDPRTMK HTDLDASKI RSGYFDERYV LSSRVRTGRS IRGLSLPPAC TRAERREVER VVDALSGLK GDLAGRYRRL SEMTEAEQQQ LIDDHFLFDK PVSPLLTAAG MARDWPDARG IWHNNEKSFL IWNNEEDHTR VISMEKGGNM KRVFERFCRG LKEVERLIQE RGWEFMWNER LGYILTCP SN LGTGLRAGVH IKLPLLSKDS RFPKILENLR LQKRGTTGGVD TAATGGVFDI SNLDRLGKSE VELVQLVIDG VNYLIDCERR LERGQDIRIP TPVIHTKH |
| Characteristics: | Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time. |
| Purity: | 90 % |

Target Details

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|-------------------|---|
| Target: | CKMT1 |
| Alternative Name: | Creatine Kinase U-Type, Mitochondrial Protein (CKMT1 Products) |
| Background: | Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. |
| Molecular Weight: | 47.2 kD |
| UniProt: | P12532 |

Application Details

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|---------------|--|
| Comment: | The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies. |
| Restrictions: | For Research Use only |

Handling

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|------------------|---|
| Format: | Lyophilized |
| Concentration: | 0.2-2 mg/mL |
| Buffer: | Tris-based buffer, 50 % glycerol |
| Handling Advice: | Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week |
| Storage: | -20 °C |
| Storage Comment: | Store at -20 °C for extended storage, conserve at -20 °C or -80 °C |

Publications

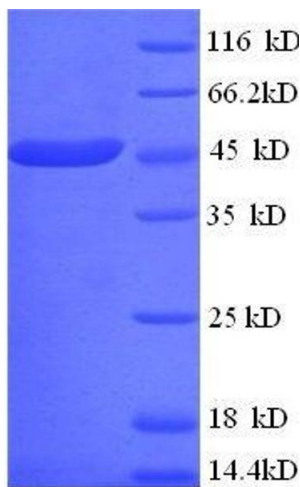
Product cited in:

Burkard, Planyavsky, Kaupe, Breitwieser, Bürckstümmer, Bennett, Superti-Furga, Colinge: "Initial characterization of the human central proteome." in: **BMC systems biology**, Vol. 5, pp. 17, (2011) ([PubMed](#)).

Durand, Angeletti, Genti-Raimondi: "GTT1/StarD7, a novel phosphatidylcholine transfer protein-like highly expressed in gestational trophoblastic tumour: cloning and characterization." in: **Placenta**, Vol. 25, Issue 1, pp. 37-44, (2004) ([PubMed](#)).

Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) ([PubMed](#)).

Images



SDS-PAGE

Image 1. Creatine Kinase, Mitochondrial 1, Ubiquitous (CKMT1) (AA 40-417), (full length) protein (His tag)