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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

MYLK (Human) Recombinant Protein (P01)

Catalog Number: H00004638-P01

Regulation Status: For research use only (RUO)

Product Description: Human MYLK full-length ORF (ENSP00000355024, 1 a.a. - 992 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MDFRANLQRQVKPKTVSEEERKVHSPQQVDFRSVLA
KKGTSKTPVPEKVPKPPKATPDFRSVLGGKKLPAEN
GSSSAETLNAKAVESKPLSNAQPSGPKLVGNAKPA
ETLKPMGNAKPAETLKPMGNAKPDENLKSASKEELKK
DVKNDVNCKRGHAGTTDNEKRSESQGTAPAFKQKLQ
DVHVAEGKLLLLQCQVSSDPPATIIWTLNGKTLKTKFI
ILSQEGSLCSVSIEKALPEDRGLYKCAKNDAGQAEC
CQVTVDDAPASENTKAPEMKSRPKSSLPPVLGTESD
ATVKKKPPAKTPPKAAMPPQIIQFPEDQKVRAGESVEL
FGKVTGTQIPITCTWMKFRKQIQESEHMKVENSENGSK
LTIARARQEHCGCYTLLVENKLGSRQAQVNLTVVDKPD
PPAGTPCASDIRSSSLTWSYWGSSYDGGSAVQSYSIEI
WDSANKTWKELATCRSTSFNVQDLLPDHEYKFRVRAI
NVYGTSEPSQESELTTVGEKPEEPKDEVEVSDDDEKE
PEVDYRTVTINTEQKVSDFYDIEERLGSFGKQVFRV
EKKTRKVVAGKFFKAYSAKEKENIRQEISIMNCLHHPK
LVQCVDAFEEKANIVMVLEIVSGGELFERIIDDEFELTE
RECIKYMRQISEGVEYIHKQGIVHLDLKPENIMCVNKTG
TRIKLIDFGLARRLENAGSLKVLFGTPEFVAPEVINYEPI
GYATDMWSIGVICYILVSGLSPFMGDNDNETLANVTS
TWFDFDEAFDEISDDAKDFISNLLKDKMKNRLDCTQCL
QHPWLMKDTKNMEAKKLSKDRMKKYMARRKWQKTG
NAVRAIGRLSSMAMISGLSGRKSSTGSPTSPLNAEKLE
SEEDVSQAFLEAVAEKPHVKPYFSKTIRDLEVEGSA
ARFCKIEGYDPDEVVWFKDDQSIRESRHFQIDYDED
GNCSLIISDVCGDDDAKYTCKAVNSLGEATCTAELIVET
MEEGEGEGEEEE

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 136.6

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4638

Gene Symbol: MYLK

Gene Alias: DKFZp686i10125, FLJ12216, KRP, MLCK, MLCK1, MLCK108, MLCK210, MSTP083, MYLK1, smMLCK

Gene Summary: This gene, a muscle member of the immunoglobulin gene superfamily, encodes myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates myosin regulatory light chains to facilitate myosin interaction with actin filaments to produce contractile activity. This gene encodes both smooth muscle and nonmuscle isoforms. In addition, using a separate promoter in an intron in the 3' region, it encodes telokin, a small protein identical in sequence to the C-terminus of myosin light chain kinase, that is independently expressed in smooth muscle and functions to stabilize unphosphorylated myosin filaments. A pseudogene is located on the p arm of chromosome 3. Four transcript variants that produce four isoforms of the calcium/calmodulin dependent enzyme have been identified as well as two transcripts that produce two isoforms of telokin. Additional variants have been identified but lack full length transcripts. [provided by RefSeq]