

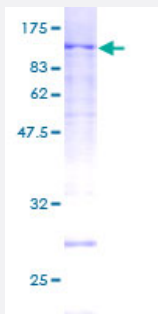
Full-Length

MCM5 (Human) Recombinant Protein (P01)

Catalog # H00004174-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MCM5 full-length ORF (AAH00142, 1 a.a. - 734 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYN
LGEYWIEVEMEDLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLK
SDASPSSIRSLKSDMMSHLVKIPGIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCN
TDQAGRPKCPLDPYFIMPDKCKCVDFTLKLQELPDVPHGEMPRHMQLYCDRYLCDKVVPGN
RVTIMGIYSIKKFGTLTTSRGRDRVGVGIRSSYIRVLGIQVDTDGSGRSFAGAVSPQEEEEFRRLAAL
PNVYEVISKSIAPSIFFGGTDMKKAIAACLLFGGSRKRLPDGLTRRGDINLLMLGDPGTAKSQLLKVE
KCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIEMEGGAMVLADGGVVCIDEFDKMREDDRAIH
EAMEQQTISIAKAGITTLNSRCSVLAAANSVFGRWDETKGEDNIDFMPITLSRFDMMIFVKDEHNEE
RDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIYCRVKCGPRLSAEAAEKLKNRYIMRSGAR
QHERDSRRSSIPITVRQLEAVRIAELSKMKLQPFATEADVEEALRLFQVSTLDAALSGTLGVE
GFTSQEDQEMLSRIEKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHKVLQLMLRRGEIQHRMQRK
VLYRLK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

106.48

Interspecies Antigen Sequence

Mouse (96); Rat (97)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MCM5

Entrez GeneID	4174
GeneBank Accession#	BC000142
Protein Accession#	AAH00142
Gene Name	MCM5
Gene Alias	CDC46, MGC5315, P1-CDC46
Gene Description	minichromosome maintenance complex component 5
Omim ID	602696
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is structurally very similar to the CDC46 protein from <i>S. cerevisiae</i> , a protein involved in the initiation of DNA replication. The encoded protein is a member of the MCM family of chromatin-binding proteins and can interact with at least two other members of this family. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may actively participate in cell cycle regulation. [provided by RefSeq]

Other Designations

DNA replication licensing factor|MCM5 minichromosome maintenance deficient 5, cell division cycle 46|minichromosome maintenance deficient 5 (cell division cycle 46)

Publication Reference

- [The selection and characterization of antibodies to minichromosome maintenance proteins that highlight cervical dysplasia.](#)

Henderson D, Hall L, Prpic N, Hessling J, Parker M, Sampson S, Simkins S, Brough G, Dixon E, Lenz K, Knapp S, Murphy P, Taylor A, Fischer T, Malinowski DP.

J Immunol Methods 2011 May; 370:1.

Application: WB, Recombinant protein

Pathway

- [Cell cycle](#)
- [DNA replication](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)