

Datasheet

MCM7 monoclonal antibody (M01), clone 6C2

Catalog Number: H00004176-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant MCM7.

Clone Name: 6C2

Immunogen: MCM7 (AAH09398, 1 a.a. ~ 389 a.a)
full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQL
VRLAHREQVALYVDLDDVAEDDPELVDSICENARRYA
KLFADAVQELLPQYKEREVVNKDVLVDVYIEHRLMMEQ
RSRDPMVRSPQNPQYPAELMRRFELYFQGPSSSKPR
VIREVRADSVGKLVTVRGIVTRVSEVKPKMVVATYTC
QCGAETYQPIQSPTFMPLIMCPSQECQTNRSRGGRLYL
QTRGSRFIKFQEMKMQEHSDQVPVGNIPRSITVLVEG
ENTRIAQPGDHVSVTGIFLPILRTGFRQVVQGLLSETYL
EAHRIVKMNKSEDDSEGAGELTRELRQIADVIFATVR
ELVSGGRSVRFSEAEQRCVSRGFTPAQFQAALDEYE
ELNVWQVNASRTRITFV

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IHC-P, PLA-Ce, S-ELISA,
WB-Ce, 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

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to
avoid repeated freezing and thawing.

Entrez GeneID: 4176

Gene Symbol: MCM7

Gene Alias: CDABP0042, CDC47, MCM2, P1.1-MCM3,
P1CDC47, P85MCM, PNAS-146

Gene Summary: The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

References:

1. Etiological role of human papillomavirus infection for inverted papilloma of the bladder. Shigehara K, Sasagawa T, Doorbar J, Kawaguchi S, Kobori Y, Nakashima T, Shimamura M, Maeda Y, Miyagi T, Kitagawa Y, Kadono Y, Konaka H, Mizokami A, Koh E, Namiki M. J Med Virol. 2011 Feb;83(2):277-85.
2. Etiologic role of human papillomavirus infection in bladder carcinoma. Shigehara K, Sasagawa T, Kawaguchi S, Nakashima T, Shimamura M, Maeda Y, Konaka H, Mizokami A, Koh E, Namiki M. Cancer. 2010 Nov 29. [Epub ahead of print]
3. Minichromosome maintenance proteins 2, 3 and 7 in medulloblastoma: overexpression and involvement in regulation of cell migration and invasion. Lau KM, Chan QK, Pang JC, Li KK, Yeung WW, Chung NY, Lui PC, Tam YS, Li HM, Zhou L, Wang Y, Mao Y, Ng HK. Oncogene. 2010 Jul 26. [Epub ahead of print]