

Recombinant Human DNA replication licensing factor
MCM2(MCM2)

Catalog No: #AP70535

Package Size: #AP70535-1 20ug #AP70535-2 100ug #AP70535-3 1mg



Description

Product Name	Recombinant Human DNA replication licensing factor MCM2(MCM2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-904aaSequence Info:Full Length
Other Names	Minichromosome maintenance protein 2 homologNuclear protein BM28
Accession No.	P49736
Calculated MW	105.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	AESSESFTMASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLLEEEEDGEELI GDGMERDYRAIPELDAYEAEGALDDEDEVEELTASQREAAERAMRQRDREAGRGLGRMRRLLYDSDEEDE ERPARKRRQVERATEDGEEDEEMIESIENLEDLKGHSVREWVSMAGPRLEIHRFKNFLRTHVDSHGHNVFK ERISDMCKENRESLVVNYEDLAAREHVLAYFLPEAPAELLQIFDEAALEVVLAMYPKYDRITNHHVRISHLPLVE ELRSLRQLHLNQLIRTSGVVTCTGVLPQLSMVKYCNKCNFVLGPFQCSQNQEVKPGSCPECQSAGPFEVN MEETIYQNYQRIRIQESPGKVAAGRLPRSKDAILLADLVDSCKPGDEIELTGIYHNNYDGSNTANGFPVFATVI LANHVAKKDNKVAVGELTDEDVKMITSLSKDQKQIGEKIFASIAPSIYGHEDIKRGALALFGGEPKNPGGKHKVR GDINVLLCGDPGTAKSQFLKYIEKVSSRAIFTTGQGASAVGLTAYVQRHPVSREWLEAGALVLADRGVCLIDE FDKMNDQDRTSIHEAMEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVR DTVDPVQDEMLARFVVGSHVRHHPSNKEEEGLANGSAAEPAMPNTYGVEPLPQEVLLKYYIAKERVHPKLN QMDQDKVAKMYSDLRKESMATGSIPITVRHIESMIRMAEAHARIHLRDYVIEDDVNMAIRVMLESFIDTQKFSV MRSMRKTFARYLSFRRDNNELLLFILKQLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNLSAFYDSE LFRMNKFSHDLKRKMILQQF
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for the entry in S phase and for cell division.

References

A human nuclear protein with sequence homology to a family of early S phase proteins is required for entry into S phase and for cell division. Todorov I.T., Pepperkok R., Philipova R.N., Kearsey S.E., Ansorge W., Werner D.J. Cell Sci. 107:253-265(1994) Research Topic: Cell Cycle

Note: This product is for in vitro research use only and is not intended for use in humans or animals.