Datasheet for ABIN7505054

MCM3 Protein (AA 41-300) (His tag)

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Overview

Quantity:	100 µg
Target:	MCM3
Protein Characteristics:	AA 41-300
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCM3 protein is labelled with His tag.

Product Details

Sequence:	Ser 41-Ala 300
Characteristics:	A DNA sequence encoding the Human MCM3 protein (P25205) (Ser 41-Ala 300) was expressed with N-His&C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	MCM3
Alternative Name:	MCM3 (MCM3 Products)
Background:	Abbreviation: MCM3 Target Synonym: MCM3,P1 Protein,P1-MCM3,P1.h,p102,P102 protein,MCM 3,mcm3 Background: The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic

Target Details

	genome replication. The hexameric protein complex formed by 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. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with mCM5/CDC46. This protein also interacts with and is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	Calculated MW: 28.49 kDa Observed MW: 35 kDa
UniProt:	P25205
Pathways:	DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication, Chromatin Binding, Synthesis of DNA

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months