

Recombinant Human MCM3AP Protein, His-tagged

Cat. No. MCM3AP-2430H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MCM3AP Protein (Phe33-Arg340) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Phe33-Arg340
Description	The minichromosome maintenance protein 3 (MCM3) is one of the MCM proteins essential for the initiation of DNA replication. The protein encoded by this gene is a MCM3 binding protein. It was reported to have phosphorylation-dependent DNA-primase activity, which was up-regulated in antigen immunization induced germinal center. This protein was demonstrated to be an acetyltransferase that acetylates MCM3 and plays a role in DNA replication. The mutagenesis of a nuclear localization signal of MCM3 affects the binding of this protein with MCM3, suggesting that this protein may also facilitate MCM3 nuclear localization. This gene is expressed in the brain or in neuronal tissue. An allelic variant encoding amino acid Lys at 915, instead of conserved Glu, has been identified in patients with mild intellectual disability.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 35.9 kDa Accurate Molecular Mass: 39 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MCM3AP minichromosome maintenance complex component 3 associated protein [Homo sapiens (human)]
Official Symbol	MCM3AP
Synonyms	MCM3AP; minichromosome maintenance complex component 3 associated protein; MCM3 minichromosome maintenance deficient 3 (S. cerevisiae) associated protein, minichromosome maintenance deficient (S. cerevisiae) 3 associated protein; 80 kDa MCM3-associated protein; GANP; KIAA0572; Map80; MCM3 import protein; germinal

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center-associated nuclear protein; minichromosome maintenance deficient 3-associated protein; MCM3 minichromosome maintenance deficient 3 associated protein; MAP80; FLJ44336; FLJ45306;

Gene ID 8888

mRNA Refseq NM_003906

Protein Refseq NP_003897

MIM 603294

UniProt ID O60318

