DNA Replication Licensing Factor MCM3 (MCM3) ELISA Kit for Canine

PRODUCT OVERVIEW

Product Name	DNA Replication Licensing Factor MCM3, ELISA Kit
Full Product Name	Canine DNA Replication Licensing Factor MCM3 ELISA Kit
Product Gene Name	MCM3 elisa kit
Species Reactivity	Canine
Preparation and Storage	Store at 2-8 degree C. The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.
Molecular Weight	95,908 Da
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Reproducibility	Intra-Assay: CV<10% Inter-Assay: CV<15%
Reactivity Note	No significant cross-reactivity or interference between this antigen and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection, therefore, cross reaction may still exist in some cases.
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for MCM3 elisa kit	This ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of the targets.
Other Notes	Small volumes of MCM3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MCM3 purchase	MBS7261774 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the DNA Replication Licensing Factor MCM3, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MCM3. The ELISA analytical biochemical technique of the MBS7261774 kit is based on MCM3 antibody-MCM3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MCM3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MCM3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCM3. It may not necessarily be applicable to this product.

NCBI GI #	1484505977
NCBI GeneID	4172
NCBI Accession #	NP_001353304.1
UniProt Secondary Accession #	Q92660; Q9BTR3; Q9NUE7; B4DWW4
UniProt Related Accession #	P25205
GenBank Nucleotide #	NM_001366375.1

NCBI Official Full Name	DNA replication licensing factor MCM3 isoform 9
NCBI Official Synonym Full Names	minichromosome maintenance complex component 3
NCBI Official Symbol	MCM3
NCBI Official Synonym Symbols	HCC5; P1.h; RLFB; P1-MCM3
UniProt Protein Name	DNA replication licensing factor MCM3
UniProt Synonym Protein Names	DNA polymerase alpha holoenzyme-associated protein P1; P1-MCM3; RLF subunit beta; p102
Protein Family	DNA replication licensing factor
UniProt Gene Name	MCM3
NCBI Protein Information	DNA replication licensing factor MCM3
NCBI Summary for MCM3	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 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2018]
UniProt Comments for MCM3	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 DNA replication and cell proliferation.
Research Articles on MCM3	**1.** this study shows that MCM3 is a novel proliferation marker in oral squamous cell carcinoma
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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