



MCM6 Monoclonal Antibody

Catalog No	YP-mAb-16797
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MCM6
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human MCM6. AA range:331-380
Specificity	MCM6 Monoclonal Antibody detects endogenous levels of MCM6 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	P105MCM;Mis5;MCG40308;EC:3.6.4.12;MCM6;DNA replication licensing factor MCM6
Observed Band	90kD
Calculated Molecular Weight	90kD
Cell Pathway	Nucleus . Chromosome . Binds to chromatin during G1 and detach from it during S phase. .
Tissue Specificity	Cervix,Epithelium,
Function	function:May be involved in the control of a single round of DNA replication during S phase. Binds to chromatin during G1 and detach from it during S phase as if it licenses the chromatin to replicate.,polymorphism:Intronic variations in MCM6 upstream from the LCT gene are associated with adult-type hypolactasia [MIM:223100] leading to lactose intolerance, or with lactase persistence. Lactose intolerance is a normal physiological phenomenon caused by developmental down-regulation of lactase activity during childhood or early adulthood. A non-coding variation in MCM6 affects the transcriptional regulation of the LCT gene resulting in down-regulation of lactase activity. However the majority of Northern Europeans and some African populations have the ability to



maintain lactase activity and digest lactose throughout life (lactase persistence)., PTM:Phosphorylated upon DNA damage, probably b

Background

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 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of the complex by CDC2 kinase reduces the helicase activity, suggesting a role in the regulation of DNA replication. Single nucleotide polymorphisms in the intron regions of this gene are associated with differential transcriptional activation of the promoter of the neighboring lactase gene and, thereby, i

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MCM6 Monoclonal Antibody