10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Mcm2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19218B

Specification

Mouse Mcm2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P97310
Other Accession	NP_032590.2
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**102078**
Antigen Region	**713-742**

Mouse Mcm2 Antibody (C-term) - Additional Information

Gene ID 17216

Other Names
DNA replication licensing factor MCM2, Minichromosome maintenance protein 2 homolog, Nuclear protein BM28, Mcm2, Bm28, Cdcl1, Kiaa0030, Mcmd2

Target/Specificity
This Mouse Mcm2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 713-742 amino acids from the C-terminal region of mouse Mcm2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Mcm2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Mcm2 Antibody (C-term) - Protein Information

Name Mcm2

Synonyms Bm28, Cdcl1, Kiaa0030, Mcmd2

Function Acts as a component of the MCM2-7 complex (MCM complex) which is the replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. Core component of CDC45-MCM-GINS (CMG) helicase, the molecular machine that unwinds template DNA during replication, and around which the replisome is built. 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 (PubMed:10567526). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (By similarity).

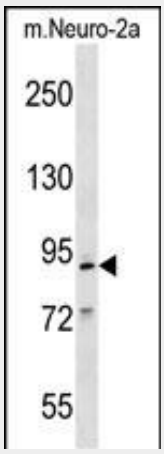
Cellular Location
Nucleus {ECO:0000250|UniProtKB:P49736}. Chromosome {ECO:0000250|UniProtKB:P49736}. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. {ECO:0000250|UniProtKB:P55861}

Mouse Mcm2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Mcm2 Antibody (C-term) - Images



Mouse Mcm2 Antibody (C-term) (Cat. #AP19218b) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the Mcm2 antibody detected the Mcm2 protein (arrow).

Mouse Mcm2 Antibody (C-term) - Background

Mcm2 acts as a factor that allows the DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division.

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Mouse Mcm2 Antibody (C-term) - References

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Chuang, C.H., et al. PLoS Genet. 6 (9) (2010) :
Lee, E.Y., et al. Dev. Biol. 332(1):104-115(2009)
Hasegawa, M., et al. Leuk. Res. 33(8):1100-1107(2009)
Breunig, J.J., et al. Proc. Natl. Acad. Sci. U.S.A. 105(35):13127-13132(2008)