

# MCM4 Polyclonal Antibody

Catalog No: tcba7965



## Available Sizes

**Size:** 50ul

**Size:** 100ul

**Size:** 200ul



## Specifications

**Application:**

WB,IHC

**Research Area:**

,

**Species Reactivity:**

Human,Mouse,Rat

**Host Species:**

Rabbit

**Isotype:**

IgG

**Form:**

Liquid

**Storage Buffer:**

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Recommended Dilution:**

WB 1:500 - 1:2000

IHC 1:50 - 1:200

**Storage Instruction:**

Store at -20°C. Avoid freeze / thaw cycles.

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**Alternative Names:**

CDC21;CDC54;hCdc21;NKCD;NKGCD;P1-CDC21

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**SwissProt:**

P33991

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**Gene ID:**

4173 (human);

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**Calculated Molecular Weight:**

96kDa

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**Purification:**

Affinity purification

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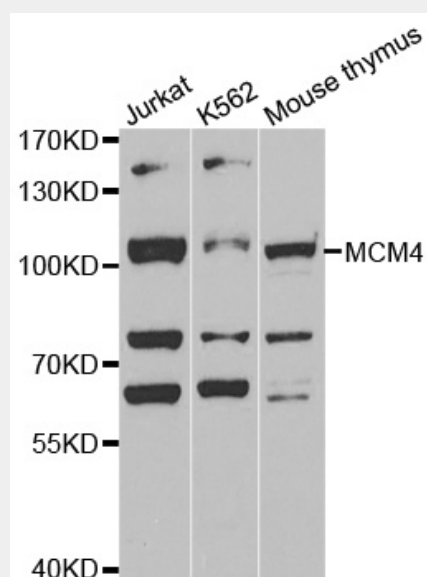
**Cellular Location:**

Nucleus,

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**Product Description**

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 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, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported.



Western blot analysis of extracts of various cell lines, using MCM4 antibody at 1:400 dilution.

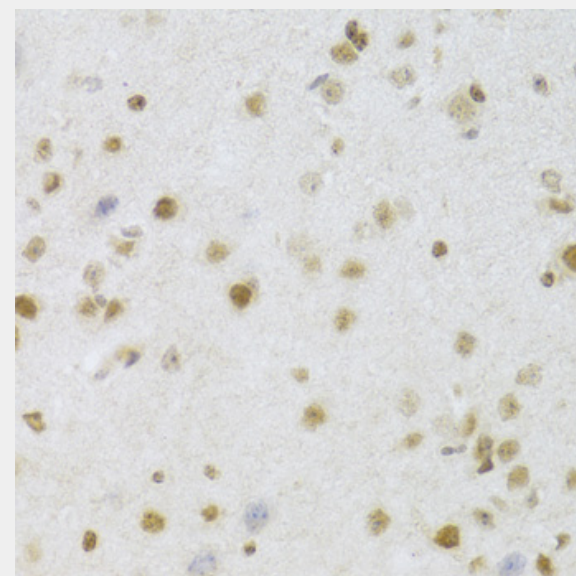
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

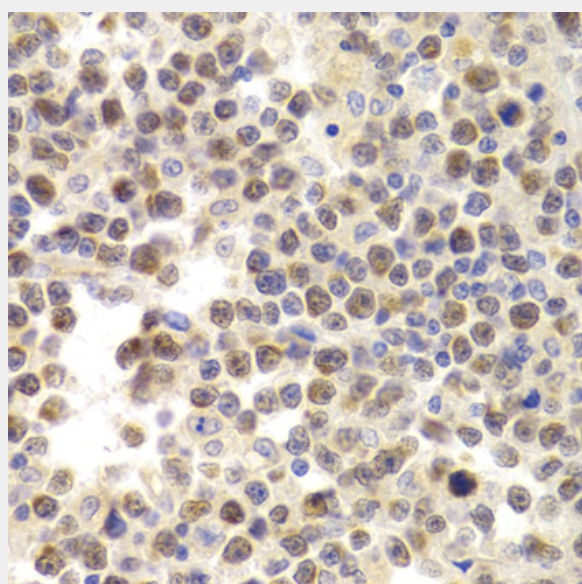
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit.

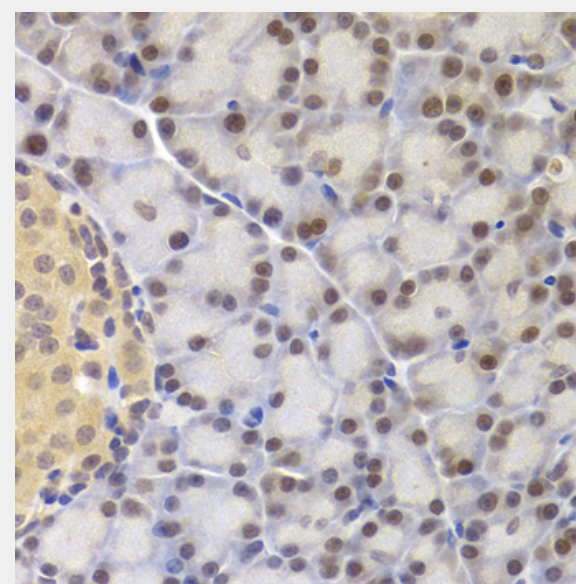
Exposure time: 90s.



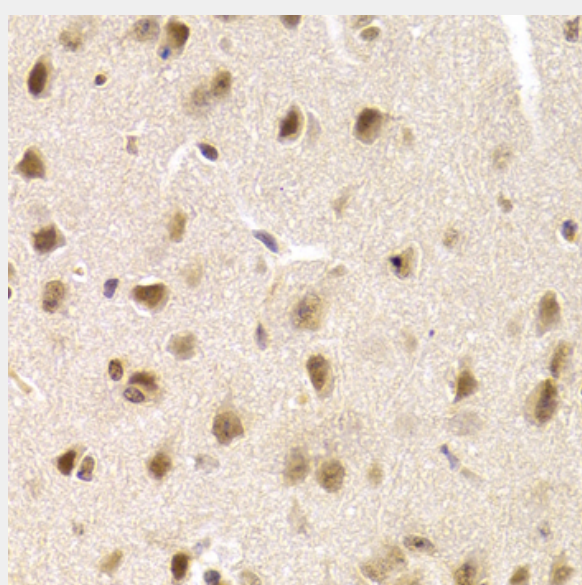
Immunohistochemistry of paraffin-embedded mouse brain using MCM4 Antibody at dilution of 1:100 (40x lens).



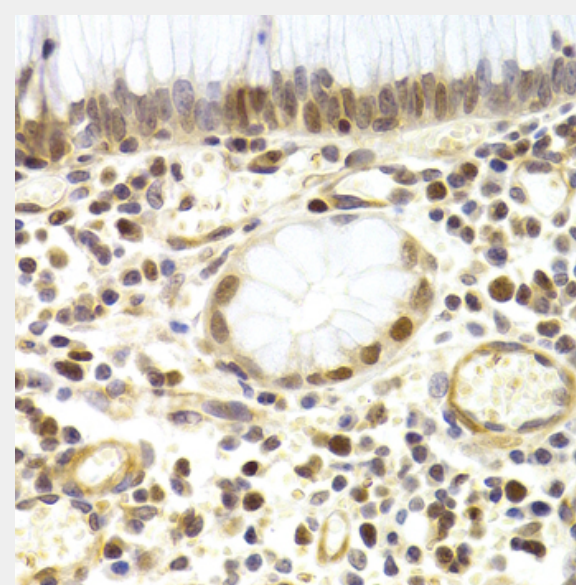
Immunohistochemistry of paraffin-embedded human B cell lymphoma using MCM4 Antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded rat pancreas using MCM4 Antibody at dilution of 1:200 (40x lens).

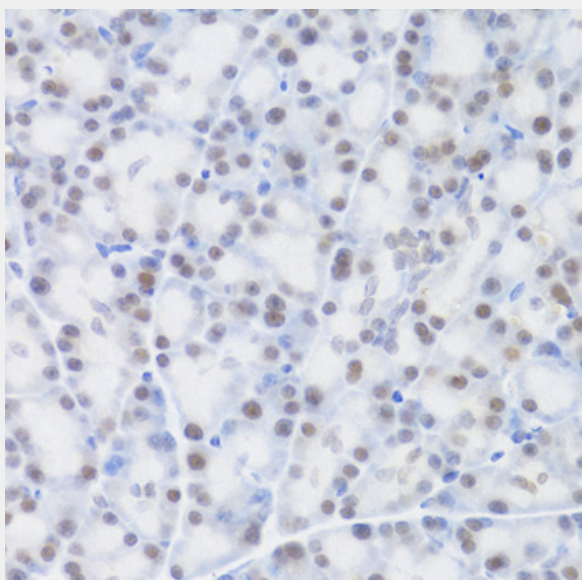


Immunohistochemistry of paraffin-embedded mouse brain using MCM4 Antibody at dilution of 1:200 (40x lens).

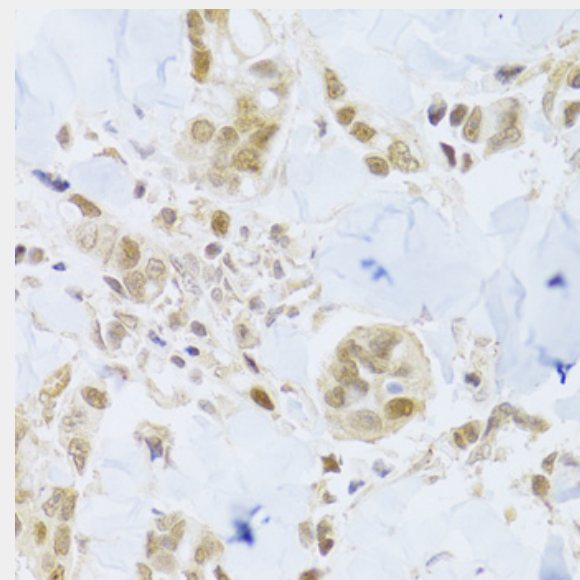


Immunohistochemistry of paraffin-embedded human gastric cancer using MCM4 Antibody at dilution of 1:200 (40x lens).

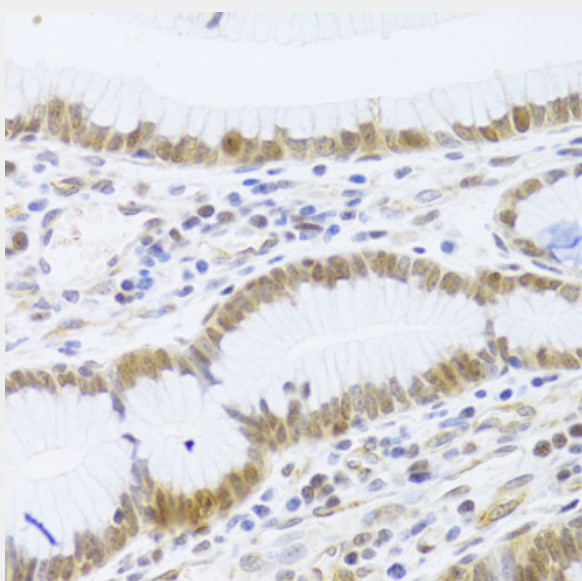




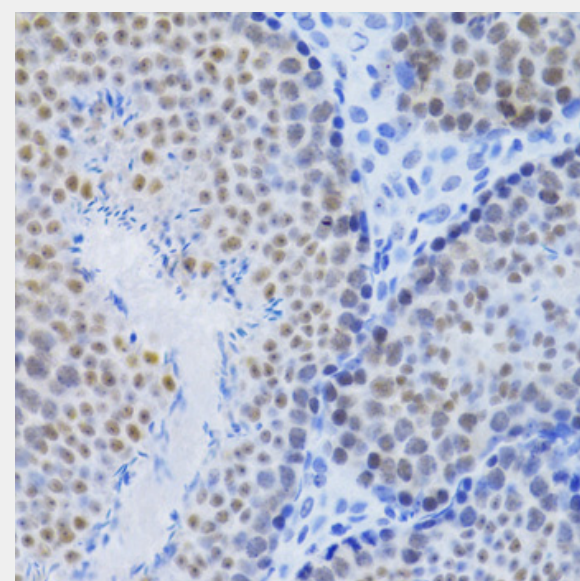
Immunohistochemistry of paraffin-embedded rat pancreas using MCM4 Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human breast cancer using MCM4 Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human gastric cancer using MCM4 Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse testis using MCM4 Antibody at dilution of 1:100 (40x lens).

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