

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

MCM4 RABBIT PAB

Cat.#: S219912

Product Name: Anti-MCM4 Rabbit Polyclonal Antibody

Synonyms: CDC21, CDC54, hCdc21, P1-CDC21

UNIPROT ID: P33991 (Gene Accession - NP_877423)

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 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.

Immunogen: Synthetic peptide of human MCM4

Applications: ELISA, WB, IHC

Recommended Dilutions: IHC: 50-200;WB: 500-2000;ELISA: 1000-5000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG **Purification:** Antigen affinity purification **Species Reactivity:** Human, Mouse

Constituents: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

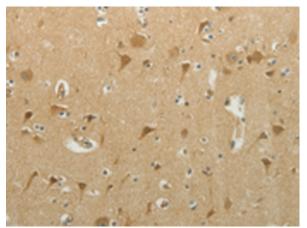
Research Areas: Epigenetics and Nuclear Signaling

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing

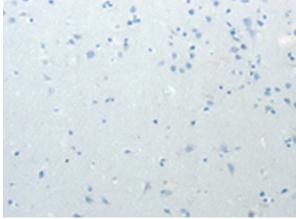


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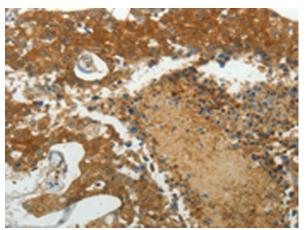
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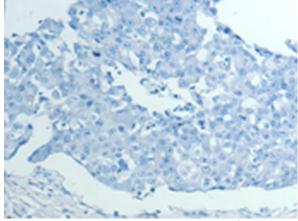
Immunohistochemistry analysis of paraffin embedded Human brain tissue using 219912(MCM4 Antibody) at a dilution of 1/40(Cytoplasm, Nucleus).



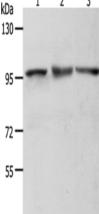
In comparision with the IHC on the left, the same paraffin-embedded Human brain tissue is first treated with the synthetic peptide and then with 219912(Anti-MCM4 Antibody) at dilution 1/40.



The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using 219912(Anti-MCM4 Antibody) at a dilution of 1/40.



In comparision with the IHC on the left, the same paraffin-embedded Human breast cancer tissue is first treated with synthetic peptide and then with D260599(Anti-MCM4 Antibody) at dilution 1/40.



Gel: 8%SDS-PAGE, Lysate: 50 μg; Lane 1-3: NIH/3T3 cells, Hela cells, K562 cells; Primary antibody: 219912(MCM4 Antibody) at dilution 1/700; Secondary antibody: Goat anti rabbit IgG at

1/8000 dilution; Exposure time: 10 seconds



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