BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish MCM4 Antibody Picoband®

Catalog Number: AZQ6NZV2

About MCM4

MCM4(MINICHROMOSOME MAINTENANCE, S. CEREVISIAE, HOMOLOG OF, 4), also called CDC21, S. POMBE, HOMOLOG OF, is a protein that in humans is encoded by the MCM4 gene. MCM4 is one of the highly conserved mini-chromosome maintenance proteins(MCM) that are essential for the initiation of eukaryotic genome replication. The MCM4 gene is mapped to 8q11.21. The 864-amino acid MCM4 protein has an observed molecular mass of 97 kD by SDS-PAGE, which is similar to its calculated molecular mass of 96.6 kD. Western blot analysis with and without phosphatase treatment suggested that MCM4 is highly phosphorylated in mitotic cells. In the absence of DDK, CDK phosphorylation at the distal part of the Mcm4 NSD becomes crucial.MCM4 encodes a subunit of the MCM2-7 complex(also known as MCM2-MCM7), the replication licensing factor and presumptive replicative helicase.

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Overview

Product Name	Anti-Zebrafish MCM4 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish MCM4 Antibody Picoband® catalog #AZQ6NZV2. Tested in WB applications. This antibody reacts with Zebrafish. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q6NZV2

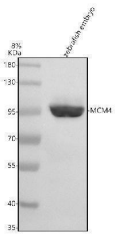
Technical Details

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Immunogen	E.coli-derived zebrafish MCM4 recombinant protein (Position: M343-I659)
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish

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Anti-Zebrafish MCM4 Antibody Picoband® (AZQ6NZV2) Images



Western blot analysis of MCM4 using anti-MCM4 antibody (AZQ6NZV2). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: zebrafish embryo tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MCM4 antigen affinity purified polyclonal antibody (AZQ6NZV2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for MCM4 at approximately 97 kDa. The expected band size for MCM4 is at 97 kDa.

Anti-Zebrafish MCM4 Antibody

For Research Use Only. Not for use in diagnostic procedures.