BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish CDK5 Antibody Picoband®

Catalog Number: AZQ9DE44

About CDK5

CDK5, Cyclin-Dependent Kinase5, is also known as PSSALRE. The p34(CDC2) protein kinase regulates important transitions in the eukaryotic cell cycle.The PSSALRE expression is in all human tissues and cell lines tested.The the CDK5 gene is mapped to chromosome 7q36. Cyclin-dependent kinase-5 is predominantly expressed in neurons where it phosphorylates both high molecular weight neurofilaments and microtubule-associated protein tau. CDK5 is required for proper development of the mammalian central nervous system. To be activated, CDK5 must associate with its regulatory subunit, p35 (CDK5R1). CDK5 can phosphorylate DARPP32 at threonine-75, converting it into an inhibitor of PKA.

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Overview

Product Name	Anti-Zebrafish CDK5 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish-CDK5-Antibody Picoband® catalog # AZQ9DE44. 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	Q9DE44

Technical Details

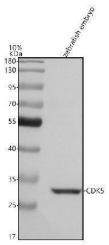
Immunogen	E.coli-derived zebrafish CDK5 recombinant protein (Position: M1-Q226).
Form	Lyophilized

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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 CDK5 Antibody Picoband® (AZQ9DE44) Images



Western blot analysis of CDK5 using anti-CDK5 antibody (AZQ9DE44). Electrophoresis was performed on a 10% 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-CDK5 antigen affinity purified polyclonal antibody (AZQ9DE44) 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 CDK5 at approximately 33 kDa. The expected band size for CDK5 is at 33 kDa.

Anti-Zebrafish CDK5 Antibody

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