

Anti-PSTAIR Antibody (Monoclonal, PSTAIR)

Catalog Number: MA1087

About CDK1

The cyclin-dependent protein kinases (CDKs) regulate major cell cycle transitions in eukaryotic cells. CDKs contain an evolutionary conserved 16 amino acid sequence called PSTAIR (EGVPSTAIRESLLKE) which distinguishes them from other protein kinases. The PSTAIRE motif found in prototypic CDC2 kinases. CDC2L1 is referred as PITSLRE B, based on the amino acid sequence of the region corresponding to the conserved CDC2 PSTAIRE box.

Overview

| | |
|----------------------|---|
| Product Name | Anti-PSTAIR Antibody (Monoclonal, PSTAIR) |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-PSTAIR Antibody (Monoclonal, PSTAIR) catalog # MA1087. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. |
| Application | WB |
| Clonality | Monoclonal PSTAIR |
| Formulation | Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative. |
| Storage Instructions | Store 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 freeze-thaw cycles. |
| Host | Mouse |
| Uniprot ID | P06493 |

Technical Details

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| Immunogen | Synthetic 16 amino acid oligopeptide containing the PSTAIR sequence conjugated to BSA. |
| Predicted Reactive Species | Canine, Monkey |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Mouse IgG1 |
| Form | Lyophilized |
| Concentration | Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml. |
| Purification | Ascites |

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.5-1ug/ml, Human, mouse, rat

Anti-PSTAIR Antibody (Monoclonal, PSTAIR) (MA1087) Images

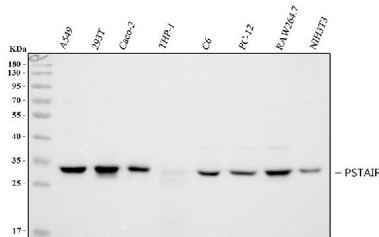


Figure 1. Western blot analysis of PSTAIR using anti-PSTAIR antibody (MA1087).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human CACO-2 whole cell lysates,
Lane 4: human THP-1 whole cell lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: rat PC-12 whole cell lysates,
Lane 7: mouse RAW264.7 whole cell lysates,
Lane 8: mouse NIH/3T3 whole cell 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 mouse anti-PSTAIR antigen affinity purified monoclonal antibody (Catalog # MA1087) at 1 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for PSTAIR at approximately 34 kDa. The expected band size for PSTAIR is at 34 kDa.

9 Publications Citing This Product

1. PubMed ID: 25734831, Ren J, Huang Q, Xu Y, Yang M, Yang J, Hu K. Anticancer Drugs. 2015 Jul;26(6):599-611. Doi: 10.1097/Cad.0000000000000224. Isoflavone Lupiwighteone Induces Cytotoxic, Apoptotic, And Antiangiogenic Activities In Du-145 Prostate Cancer Cells.
2. PubMed ID: 30159255, Coxsackievirus A6 induces cell cycle arrest in G0/G1 phase for viral production
3. PubMed ID: 28229049, Human enterovirus 68 interferes with the host cell cycle to facilitate viral production

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