

Anti-PCK Antibody (Monoclonal, C-11+PCK-26+CY-90+KS-1A3+M20+A53-B/A2)

Catalog Number: MA1081

About KRT1

Monoclonal anti cytokeratins are specific markers of epithelial cell differentiation and have been widely used as tools in tumor identification and classification. Monoclonal Anti Pan Cytokeratin (mixture) is a broadly reactive reagent, which recognizes epitopes present in most human epithelial tissues.

Overview

Product Name	Anti-PCK Antibody (Monoclonal, C-11+PCK-26+CY-90+KS-1A3+M20+A53-B/A2)
Reactive Species	Human, Rat
Description	Boster Bio Anti-PCK Antibody (Monoclonal, C-11+PCK-26+CY-90+KS-1A3+M20+A53-B/A2) catalog # MA1081. Tested in IHC, WB applications. This antibody reacts with Human, Rat.
Application	IHC, WB
Clonality	Monoclonal C-11+PCK-26+CY-90+KS-1A3+M20+A53-B/A2
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	P04264

Technical Details

Immunogen	mixture of several monoclonal cytokeratin clones.
Predicted Reactive Species	Canine, Horse, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and IHC(F).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG2a/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: Immunohistochemistry (Paraffin-embedded Section), 0.1-0.5ug/ml, Human, rat, By Heat Immunohistochemistry (Frozen Section), 0.1-0.5ug/ml, Human, rat, - Western blot, 1-2ug/ml, Human, rat

Anti-PCK Antibody (Monoclonal, C-11+PCK-26+CY-90+KS-1A3+M20+A53-B/A2) (MA1081) Images

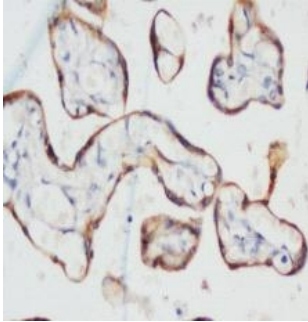


Figure 1. IHC analysis of PCK using anti-PCK antibody (MA1081).

PCK was detected in a paraffin-embedded section of Human Placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 0.5 ug/ml mouse anti-PCK Antibody (MA1081) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

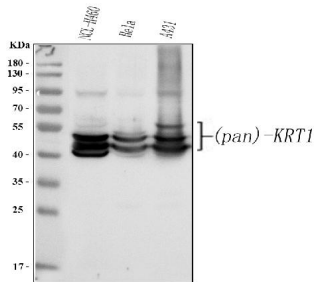


Figure 2. Western blot analysis of PCK using anti-PCK antibody (MA1081).

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 NCL-H460 whole cell lysates.

Lane 2: human Hela whole cell lysates.

Lane 3: human A431 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-PCK antigen affinity purified monoclonal antibody (Catalog # MA1081) 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 PCK at approximately 45-60 kDa. The expected band size for PCK is at 66 kDa.

3 Publications Citing This Product

1. PubMed ID: 23185403, Bai J, Liu H, Li D, Cui L, Wu X. Plos One. 2012;7(11):E49673. Doi: 10.1371/Journal.Pone.0049673. Epub 2012 Nov 20. Duodenum Clamping Trauma Induces Significant Postoperative Intraperitoneal Adhesions On A Rat Model.
2. PubMed ID: 26870216, A metanephric adenoma of the kidney associated with polycythemia: A case report
3. PubMed ID: 24962416, Stanniocalcin-1 protects bovine intestinal epithelial cells from oxidative stress-induced damage

Visit bosterbio.com/anti-pck-antibody-monoclonal-ma1081-boster.html to see all 3 publications.

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