

## Anti-Calceurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1)

Catalog Number: MA1008

### About Ppp3r1

Calcineurin, the Ca (2+)/calmodulin-regulated protein phosphatase, first detected in skeletal muscle and brain, has been found in all cells from yeast to mammals. Calcineurin A alpha (PPP3CA), is located on human chromosomes 4, Chromosomal mapping of the human genes for the calmodulin-dependent protein phosphatase (calcineurin) catalytic subunit. Calcineurin regulates bone formation by the osteoblast.

### Overview

Product Name	Anti-Calceurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1)
Reactive Species	Bovine, Human, Mouse, Rat
Description	Boster Bio Anti-Calceurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1) catalog # MA1008. Tested in IHC, WB applications. This antibody reacts with Bovine, Human, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal CN-A1
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN <sub>3</sub> as preservative.
Storage Instructions	At -20°C for one year and at 4°C for one month from date of receipt. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	P63100

### Technical Details

Immunogen	Bovine brain calcineurin.
Predicted Reactive Species	Bovine, Canine, Chicken, Monkey
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).
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:

Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, bovine, mouse, rat, By Heat

Western blot, 0.25-0.5ug/ml, Human, bovine, mouse, rat

## Anti-Calceineurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1) (MA1008) Images

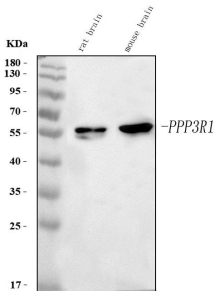


Figure 1. Western blot analysis of Calcineurin Alpha/PPP3R1 using anti-Calceineurin Alpha/PPP3R1 antibody (MA1008). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain 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 mouse anti-Calceineurin Alpha/PPP3R1 antigen affinity purified monoclonal antibody (Catalog # MA1008) 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-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 Calcineurin Alpha/PPP3R1 at approximately 61 kDa. The expected band size for Calcineurin Alpha/PPP3R1 is at 19 kDa.

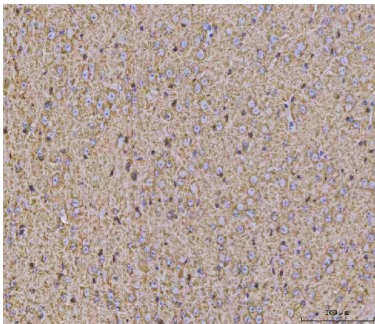


Figure 2. IHC analysis of Calcineurin Alpha/PPP3R1 using anti-Calceineurin Alpha/PPP3R1 antibody (MA1008).

Calcineurin Alpha/PPP3R1 was detected in a paraffin-embedded section of mouse brain 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 1 ug/ml mouse anti-Calceineurin Alpha/PPP3R1 Antibody (MA1008) 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.

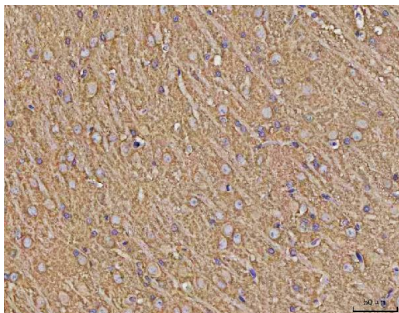


Figure 3. IHC analysis of Calcineurin Alpha/PPP3R1 using anti-Calceineurin Alpha/PPP3R1 antibody (MA1008).

Calcineurin Alpha/PPP3R1 was detected in a paraffin-embedded section of rat brain 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 1 ug/ml mouse anti-Calceineurin Alpha/PPP3R1 Antibody (MA1008) 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.

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