

Anti-Calcineurin 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

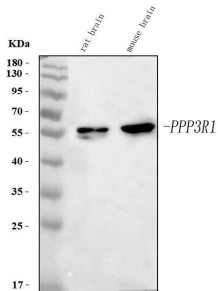
Product Name	Anti-Calcineurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1)
Reactive Species	Bovine, Human, Mouse, Rat
Description	Boster Bio Anti-Calcineurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1) catalog # MA1008. Tested in IHC, WB applications. This antibody reacts with Bovine, Human, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal CN-A1
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN ₃ .
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

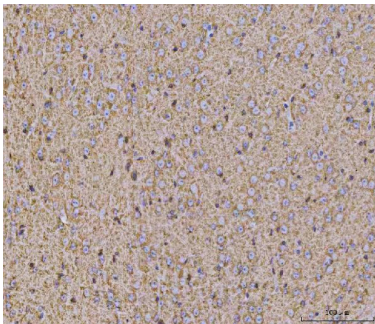
Immunogen	Bovine brain calcineurin.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, bovine, mouse, rat Western blot, 0.25-0.5ug/ml, Human, bovine, mouse, rat

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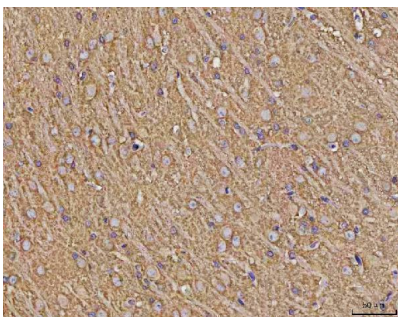
Anti-Calcineurin Alpha Ppp3r1 Antibody (Monoclonal, CN-A1) (MA1008) Images



Western blot analysis of Calcineurin Alpha/PPP3R1 using anti-Calcineurin 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-Calcineurin 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.



IHC analysis of Calcineurin Alpha/PPP3R1 using anti-Calcineurin 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-Calcineurin 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.



IHC analysis of Calcineurin Alpha/PPP3R1 using anti-Calcineurin 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-Calcineurin 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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