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antibody and ELISA experts

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Anti-Calbindin-D Calb1 Antibody (Monoclonal, CB-955)

Catalog Number: MA1007

About Calb1

The human calbindin D28k (CALB1) is a calcium-binding protein belonging to the troponin C superfamily. It was originally described as a 27-kD protein induced by vitamin D in the duodenum of the chick. Parmentier et al. (1991) mapped the CALB1 gene to 8q21.3-q22.1 by in situ hybridization.

Overview

Product Name	Anti-Calbindin-D Calb1 Antibody (Monoclonal, CB-955)
Reactive Species	Bovine, Human, Mouse, Rat
Description	Boster Bio Anti-Calbindin-D Calb1 Antibody (Monoclonal, CB-955) catalog # MA1007. Tested in IF, IHC, WB applications. This antibody reacts with Bovine, Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Monoclonal CB-955
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 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	P07171

Technical Details

Immunogen	Bovine kidney calbindin-D
Predicted Reactive Species	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

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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), 1-2ug/ml, Human, bovine, mouse, rat, By Heat Western blot, 0.5-1ug/ml, Human, bovine, mouse, rat Immunofluorescence, 2ug/ml, Mouse

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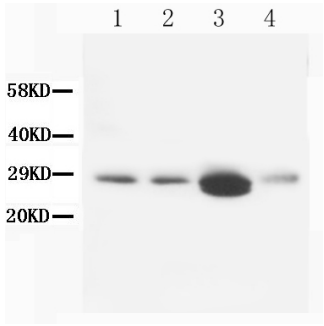
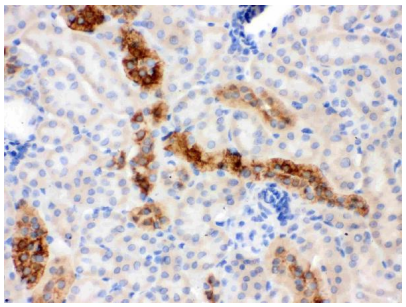
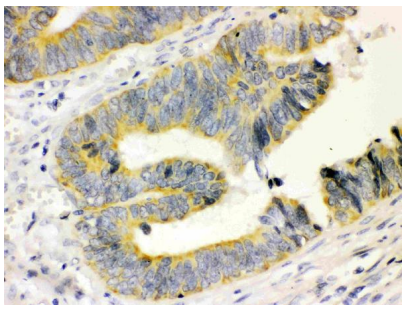
Anti-Calbindin-D Calb1 Antibody (Monoclonal, CB-955) (MA1007) Images



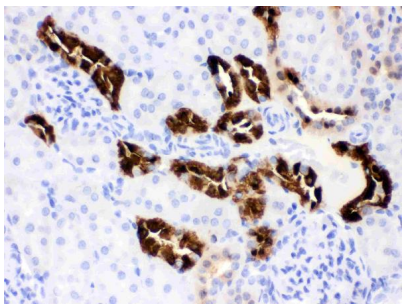
Anti-Calbindin-D antibody (monoclonal), MA1007, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Rat Kidney Tissue Lysate
Lane 4: Rat Lung Tissue Lysate



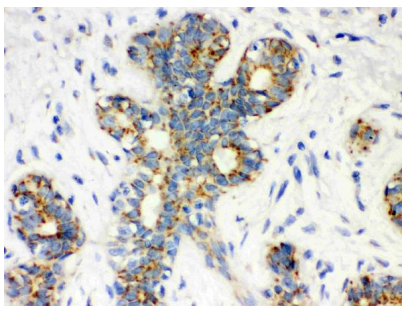
Anti-Calbindin-D antibody (monoclonal), MA1007, IHC(P)
IHC(P): Mouse Kidney Tissue



Anti-Calbindin-D antibody (monoclonal), MA1007, IHC(P)
IHC(P): Human Intestinal Cancer Tissue



Anti-Calbindin-D antibody (monoclonal), MA1007, IHC(P)
IHC(P): Rat Kidney Tissue



Anti-Calbindin-D antibody (monoclonal), MA1007, IHC(P)
IHC(P): Human Mammary Cancer Tissue

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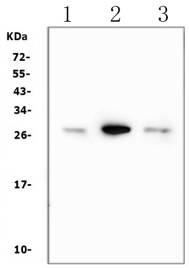

Figure 6. Western blot analysis of Calbindin-D using anti-Calbindin-D antibody (MA1007).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat brain tissue lysates
Lane 2: rat kidney tissue lysates
Lane 3: mouse brain tissue lysates
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Calbindin-D antigen affinity purified monoclonal antibody (Catalog # MA1007) 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 Calbindin-D at approximately 28KD. The expected band size for Calbindin-D is at 28KD.

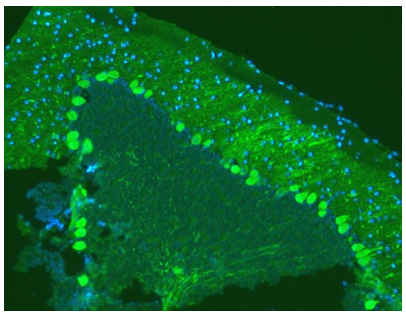

Figure 7. IF analysis of Calbindin-D using anti-Calbindin-D antibody (MA1007)
Calbindin-D was detected in paraffin-embedded section of mouse brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/mL mouse anti-Calbindin-D Antibody (MA1007) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.