Product datasheet

Anti-Calbindin/CALB1 Antibody

Catalog Number: *A03047*

BOSTER
antibody and ELISA experts
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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Calbindin/CALB1 Antibody
Gene Name	CALB1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human Calbindin recombinant protein (Position: A2-N261). Human Calbindin shares 98.5% amino acid (aa) sequence identity with both mouse and rat Calbindin.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	28 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF) : 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Calbindin is a calcium-binding protein belonging to the troponin C superfamily. And it mapped to 8q21.3. Calretinin is expressed in central and peripheral nervous system and in many normal and pathological tissues. The rat and human calretinin exhibit 98% sequence homology and 91% homology to many other species. Two calcium binding proteins, calbindin and calretinin, have been reported to be expressed in abundance in Purkinje cells and other cell types in the

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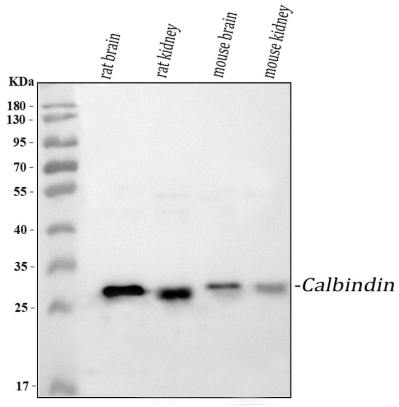
cerebellum.

Reference

Anti-Calbindin/CALB1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of Calbindin/CALB1 using anti-Calbindin/CALB1 antibody (A03047). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat brain tissue lysates,
Lane 2: rat kidney tissue lysates,
Lane 3: mouse brain tissue lysates,
Lane 4: mouse kidney tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Calbindin/CALB1 antigen affinity purified polyclonal antibody (A03047) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Calbindin/CALB1 at approximately 28 kDa. The expected band size for Calbindin/CALB1 is at 30 kDa.

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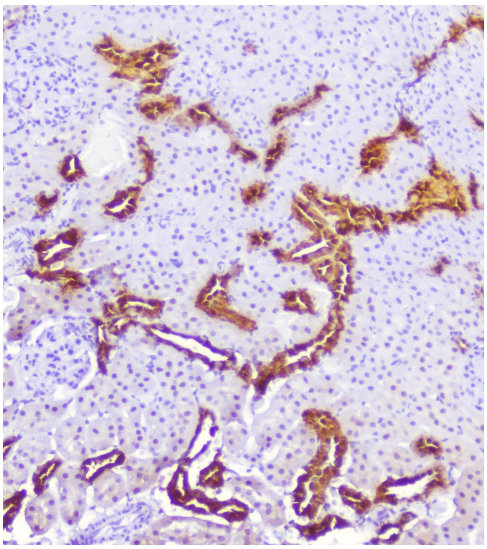
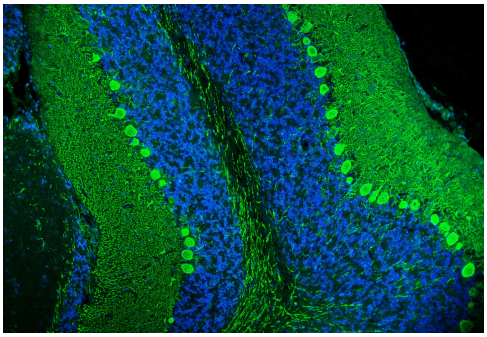
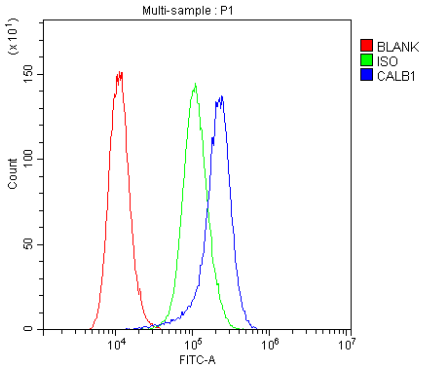


IHC analysis of Calbindin/CALB1 using anti-Calbindin/CALB1 antibody (A03047).
Calbindin/CALB1 was detected in a paraffin-embedded section of rat kidney tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Calbindin/CALB1 Antibody (A03047) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis using anti- Calbindin antibody (A03047). detected in paraffin-embedded section of rat cerebellum tissue. The tissue section were stained using the Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).



Flow Cytometry analysis of A431 cells using anti-Calbindin/CALB1 antibody (A03047).
Overlay histogram showing A431 cells stained with A03047 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Calbindin/CALB1 Antibody (A03047) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample (Red line) was also used as a control.