Product datasheet

Anti-Calbindin/CALB1 Antibody

Catalog Number: *PB9045*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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, IP
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-E175). Human Calbindin shares 99% amino acid (aa) sequence identity with mouse and rat Calbindin.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	26 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 ImmunoPrecipitation (IP): 1:250-300 (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. 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 cerebellum.

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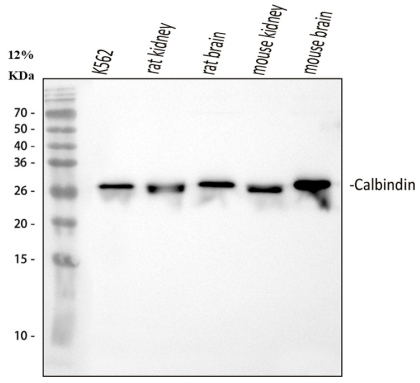
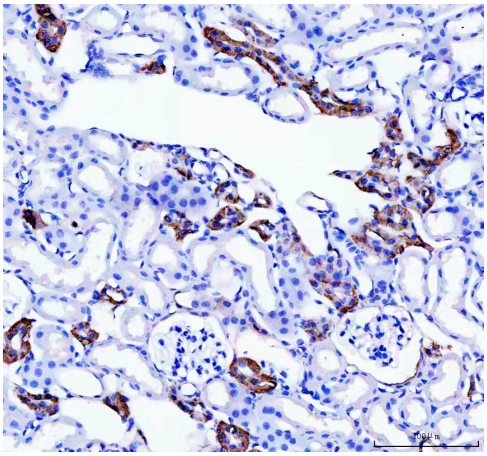
Reference

Anti-Calbindin/CALB1 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of Calbindin/CALB1 using anti-Calbindin/CALB1 antibody (PB9045). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: rat kidney tissue lysates,
Lane 3: rat brain tissue lysates,
Lane 4: mouse kidney tissue lysates,
Lane 5: mouse brain 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 (PB9045) 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 26 kDa. The expected band size for Calbindin/CALB1 is at 30 kDa.



IHC analysis of Calbindin/CALB1 using anti-Calbindin/CALB1 antibody (PB9045) .
Calbindin/CALB1 was detected in a paraffin-embedded section of mouse kidney tissue. The tissue section was incubated with rabbit anti-Calbindin/CALB1 Antibody (PB9045) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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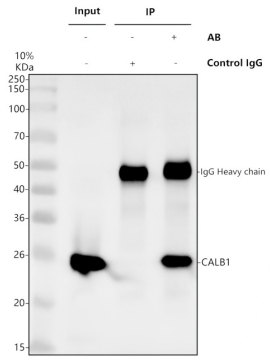

IP analysis of Calbindin/CALB1 using anti-Calbindin/CALB1 antibody (PB9045) in K562 whole cell lysate.
Western blot analysis of Calbindin/CALB1 using anti- Calbindin/CALB1 antibody (PB9045).
Lane 1: K562 whole cell lysates(30ug),
Lane 2: Rabbit control IgG instead of anti- Calbindin/CALB1 antibody in K562 whole cell lysate,
Lane 3: anti- Calbindin/CALB1 antibody (2µg) + K562 whole cell lysate (500µg).
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti- Calbindin/CALB1 antigen affinity purified polyclonal antibody (PB9045) 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 26 kDa. The expected band size for Calbindin/CALB1 is at 30 kDa.