Calbindin-D28k Polyclonal ANTIBODY
Catalog Number: 14479-1-AP

Basic Information
Catalog Number: 14479-1-AP
Size: 43 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG5861
GenBank Accession Number: BC006478
GeneID (NCBI): 793
Full Name: Calbindin 1, 28kDa
Calculated MW: 30 kDa
Observed MW: 28 kDa

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 μg for IP and 1:500-1:2000 for WB
IHC 1:100-1:4000
IF 1:50-1:500

Applications
Tested Applications:
IF, IHC, IP, WB, ELISA
Cited Applications:
IF, WB
Species Specificity:
human, mouse, rat
Cited Species:
human, mouse, rat

Background Information
Calbindin-D28k is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. It is a cytosolic calcium binding protein highly expressed in the distal tubule, intestines, central nervous system, primary murine osteoblast cells and in several other organs. It plays an important role in the intracellular calcium homeostasis, its strong buffering capacity prevents cytotoxic effect of high concentration of free calcium in kidney, brain, pancreas, and intestine.

Notable Publications
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<th>Author</th>
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<tr>
<td>Takahiro Seki</td>
<td>30345965</td>
<td>Mol Cell Neurosci</td>
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<tr>
<td>Sha Li</td>
<td>30822214</td>
<td>Mol Med</td>
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<tr>
<td>Zhengxiang Huang</td>
<td>28539588</td>
<td>Oncol Lett</td>
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Storage
Store at -20°C. Stable for one year after shipment.

For technical support and original validation data for this product please contact:
T 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
E proteintech@ptglab.com
W ptglab.com

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Selected Validation Data

Mouse brain tissue were subjected to SDS PAGE followed by western blot with 14479-1-AP Calbindin-D28k antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.

IHC result of Calbindin antibody (14479-1-AP, 1:5000 in 1% BSA 0.3%Tx-100 Tris buffer incubated at 4°C overnight) with freshly formalin fixed human hippocampus (floating section). Secondary antibody biotinylated anti-rabbit IgG 1:200 in 1% BSA 0.3%Tx-100 Tris buffer for 2 hours at room temperature.

Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 14479-1-AP (Calbindin-D28k antibody) at dilution of 1:2000 (under 10x lens).

Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using 14479-1-AP (Calbindin-D28k antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).


Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using 14479-1-AP (Calbindin-D28k antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).