## For Research Use Only

## Calbindin-D28k Polyclonal antibody

Catalog Number:14479-1-AP

Featured Product

38 Publications

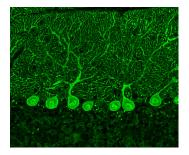
Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 14479-1-AP	GenBank Accession Number: BC006478		Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 300 ug/ml by			WB: 1:5000-1:50000	
	Nanodrop;	UNIPROT ID:		IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
	Source:	P05937		protein lysate	
	Rabbit	Full Name:		IHC: 1:1000-1:4000 IF-P: 1:200-1:800	
	Isotype:	calbindin 1, 28kDa		IF-Fro: 1:50-1:500	
	IgG	Calculated MW:			
	Immunogen Catalog Number: AG5861	30 kDa			
		Observed MW: 28 kDa			
Applications	Tested Applications:		Positive Controls:		
	WB, IHC, IF-P, IF-Fro, IP, ELISA		WB : mouse brain tissue, mouse cerebellum tissue, rat brain tissue		
	Cited Applications:				
	WB, IHC, IF		IP : mouse brain tissue,		
	Species Specificity: human, mouse, rat		IHC : human	IHC : human cerebellum tissue, hippocampus, human brain tissue, mouse cerebellum tissue, rat cerebellum	
	Cited Granders				
	human manual wat manufact shields		tissue, huma kidney tissu	an kidney tissue, mouse kidney tissue,	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		•	IF-P : mouse cerebellum tissue, human kidney tissue	
			IF-Fro : mouse cerebellum tissue, rat cerebellum tissu		
Background Information	Calbindin-D28k is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. I 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.				
	brain, pancreas, and intestine.				
Notable Publications		omed ID Jour	nal	Application	
Notable Publications	Author Put		nal Cell Neurosci	Application IF	
Notable Publications	Author Put Takahiro Seki 30		Cell Neurosci		
Notable Publications	AuthorPutTakahiro Seki303Rui Zhang343	542995 Mol 762817 Mol	Cell Neurosci	IF	
Notable Publications Storage	AuthorPutTakahiro Seki303Rui Zhang343	542995 Mol 762817 Mol 52260 Auto ter shipment.	Cell Neurosci Ther	IF IHC,IF	

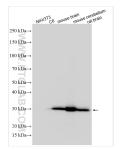
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed adult mouse cerebellum tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:1500 and Alexa Fluor 594 AffiniPure Donkey Anti-Rabbit IgG (H+L). (Image produced by Watt Lab at McGill University)



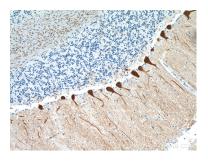
Various lysates were subjected to SDS PAGE followed by western blot with 14479-1-AP (Calbindin-D28k antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. (Negative control: NIH/3T3, C6)



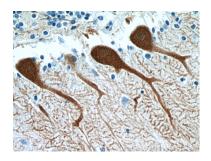
Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgC(H+L), PAX6 antibody (67529-1-Ig, Clone: 2C5A1, red).



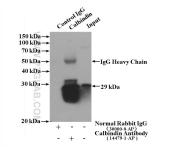
Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), PAX6 antibody (67529-1-Ig, Clone: 2C5A1, red).



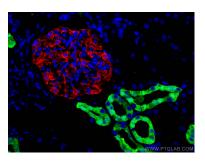
Immunohistochemical analysis of paraffinembedded human cerebellum tissue slide using 14479-1-AP (Calbindin-D28k antibody) at dilution of 1:2000 (under 10x lens).



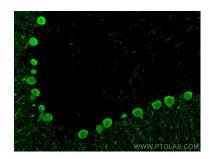
Immunohistochemical analysis of paraffinembedded human cerebellum tissue slide using 14479-1-AP (Calbindin-D28k antibody) at dilution of 1:2000 (under 40x lens).



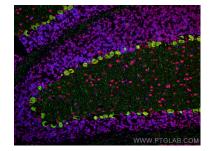
IP result of anti-Calbindin-D28k (IP:14479-1-AP, 4ug; Detection:14479-1-AP 1:1000) with mouse brain tissue lysate 4000ug.

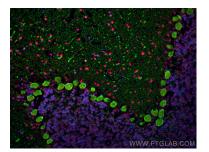


Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), PTPRO antibody (67000-1-Ig, Clone: 2F2B4, red).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).





Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse cerebellum tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), FUS/TLS antibody (68262-1-Ig, Clone: 1B4F8, red). Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat cerebellum tissue using Calbindin-D28k antibody (14479-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), FUS/TLS antibody (68262-1-1g, Clone: 1B4F8, red).