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Inspiration for Life Science

POLYCLONAL ANTIBODY

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**Catalog No. ACC-PA003**

## Anti Calbindin D-28k

### Background :

Vitamin D-dependent 28 kDa calcium-binding protein (calbindin D 28k or CB) is a member of the calmodulin superfamily of calcium binding proteins discovered in 1966 by Wasserman and Taylor. The protein has a distinct distribution in the brain and sensory system and is abundant in specific neuronal cell types. Calbindin D-28k constitutes as much as 0.1-1.5 % of the total soluble protein in brain and it may be present at intracellular concentrations up to 1 mM.

Several recent studies have shown that calbindin D can protect cells from degeneration and ischemic injury under extracellular stress. In particular, this is demonstrated in the brain of Alzheimer and quotes disease patients. Cells containing calbindin D have a considerably lower plaque and tangles burden than those lacking this 28 kDa protein.

Applications:	Western Blotting (WB)	: 0.1 ug/ml
	Immunofluorescence (IF)	: 1 ug/ml
	Immunoprecipitation (IP)	: assay dependent
	Enzyme-linked immunosorbent assay (ELISA)	: assay dependent
	Immunohistochemistry (Paraffin) (IHC (P))	: assay dependent
Specificity:	Calbindin D-28k	
Immunogen:	28 kDa calbindin-D protein purified from rat kidney.	
Host:	Rabbit	
Reactivity:	Human, Mouse, Rat	
Clonality:	Polyclonal	
Subclass:	IgG	
Purification method:	Affinity purified	
Form:	Liquid (0.1M NaPB, pH7.0, 20 mg/ml BSA, 0.1% Sodium Azide (NaN <sub>3</sub> ) added)	
Conjugation:	None	
Volume:	50 ug (1 mg/ml)	
Storage condition:	-20°C	

References:	Zhu YY, Takashi M, Miyake K, Kato K. (1991) Sensitive enzyme immunoassay for human 28 kDa calbindin-D. Clin Chim Acta. 1991 201:183-92.
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