



Anti Parvalbumin

Background :

Parvalbumin (PV) is a calcium binding protein expressed in specific muscle fibers and fast-firing neurons. PV consists of a single, unbranched chain of linked amino acids and belongs to a larger group of EF hand proteins. Studies have demonstrated that parvalbumin acts in the decay of calcium in the contraction/relaxation cycle of fast twitch muscles. This data has shown a positive correlation between the rate of relaxation and the concentration of parvalbumin.

Parvalbumin is also expressed in a specific population of GABAergic interneurons which are thought to play a role in maintaining the balance between excitation and inhibition in the cortex as well as the hippocampus. In amyotrophic lateral sclerosis (ALS) patients, parvalbumin immunoreactivity is specifically absent from neuron populations lost early in ALS.

Applications:	Western Blotting (WB)	: 0.1 ug/ml
	Immunoprecipitation (IP)	: 5 ug/ml
	Enzyme-linked immunosorbent assay (ELISA)	: assay dependent
	Immunocytochemistry (ICC)	: 1:100 - 1:200
	Immunofluorescence (IF)	: 1 ug/ml
	Immunohistochemistry (Paraffin) (IHC (P))	: 1 ug/ml
Specificity:	Parvalbumin	
Immunogen:	Purified parvalbumin from rat skeletal muscle	
Host:	Rabbit	
Reactivity:	Human, 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 ₃) added)	
Conjugation:	None	
Volume:	50 ug (1 mg/ml)	
Storage condition:	-20°C	

References: Inaguma Y, Kurobe N, Shinohara H, Kato K. (1991) Sensitive immunoassay for rat parvalbumin: tissue distribution and developmental changes. *Biochim Biophys Acta.* 1075: 68-74.



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