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TA303033 OriGene EU

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Polyclonal Antibody to Parvalbumin alpha / PVALB (Cterm) - Aff - Purified

Catalog No.:	TA303033
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
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 interneurones 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) patents, parvalbumin immunoreactivity is specifically absent from neuron populations lost early in ALS.
Uniprot ID:	<u>P20472</u>
NCBI:	<u>NP_002845.1</u>
GenelD:	<u>5816</u>
Host:	Goat
Immunogen:	Peptide with sequence from the C Terminus of the protein sequence according to NP_002845.1. Genename: PVALB AA Sequence: C-GVDEFSTLVAES
Format:	 State: Liquid purified IgG fraction. Purification: Ammonium Sulphate Precipitation followed by Antigen Affinity Chromatography using the immunizing peptide. Buffer System: Tris saline, pH~7.3 Preservatives: 0.02% Sodium Azide Stabilizers: 0.5% BSA
Applications:	 Peptide ELISA: 1/32000 (Detection limit). Western Blot: 0.1-0.3 μg/ml. Approx 12kDa band observed in Human Brain lysates (calculated MW of 12.1kDa according to NP_002845.1). Approx 10-12kDa band observed in rat skeletal muscle and in rat heart cells transfected with human PVALB, but not in untransfected rat heart cells (Ref.1).

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



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Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



Immunohistochemistry on Paraffin Section Other applications not tested. Optimal dilut be determined by the user.	s. ions are dependent on conditions and should
This antibody recognizes Parvalbumin.	
Tested: Human, Rat.	
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.	
1. Hashimoto T, Bergen SE, Nguyen QL, Xu B, Monteggia LM, Pierri JN, et al. Relationship of brain-derived neurotrophic factor and its receptor TrkB to altered inhibitory prefrontal circuitry in schizophrenia. J Neurosci. 2005 Jan 12;25(2):372-83. PubMed PMID: 15647480.	
TA303033 (0.1µg/ml) staining of Human Brain lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.	250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa 15kDa 10kDa
	Other applications not tested. Optimal dilut be determined by the user. This antibody recognizes Parvalbumin. Tested: Human, Rat. Store undiluted at 2-8°C for one month or (i Avoid repeated freezing and thawing. Shelf life: one year from despatch. 1. Hashimoto T, Bergen SE, Nguyen QL, Xu B brain-derived neurotrophic factor and its re- circuitry in schizophrenia. J Neurosci. 2005 TA303033 (0.1µg/ml) staining of Human Brain lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected



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