

## Polyclonal Antibody to Parvalbumin alpha / PVALB - Aff - Purified

<b>Catalog No.:</b>	SP5356P
<b>Quantity:</b>	0.1 mg
<b>Background:</b>	<p>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.</p> <p>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.</p>
<b>Uniprot ID:</b>	<a href="#">P20472</a>
<b>Host / Isotype:</b>	Rabbit
<b>Immunogen:</b>	Purified parvalbumin from rat skeletal muscle.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Epitope affinity chromatography. <b>Buffer System:</b> PBS containing 30 mg/ml BSA as stabilizer and 0.05% sodium azide as preservative.
<b>Applications:</b>	<p>Immunohistochemistry on paraffin embedded sections: 100 µg/ml. ELISA. Immunoprecipitation: 5 µg/ml. Western Blot: 0.1 µg/ml, detects a 12 kDa protein representing parvalbumin from rat cerebellum; Parvalbumin protein is relatively small and, therefore, it is recommended that the electrophoresis be performed using tricine-SDS-PAGE gels and transferred to a nylon membrane.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	SP5356P detects parvalbumin protein in human and rat samples.
<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General References:</b>	1. Biochimica et Biophysica Acta, 1075:68-74, 1991. 2. J. Neurol. Sci., 110: 57-61, 1992.

### Pictures:



**Figure 1.** Western blot of parvalbumin from rat cerebellum extract using SP5356P.