

Recombinant Full Length Rat Parvalbumin / PVALB Protein

Cat. No. Pvalb-254R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat PV protein produced in <i>E. Coli</i> contains full length amino acids and has a molecular mass of 9-11 kDa.
Species	Rat
Source	E.coli
Protein Length	1-110 a.a.
Description	Parvalbumin is a calcium binding albumin protein with low molecular weight (typically 9-11 kDa). It has three EF hand motifs and is structurally related to calmodulin and troponin C. Parvalbumin is localised in fast-contracting muscles, where its levels are highest, and in the brain and some endocrine tissues.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	The protein was lyophilized from a concentrated solution (1mg/ml) containing 10mM Tris-base, 70mM NaCl, 1mM EDTA and 1mM -mercaptoethanol, pH 7.4.
Purity	Greater than 90% as determined by: Analysis by reducing and non-reducing SDS-PAGE Coomassie.
Solubility	It is recommended to reconstitute the lyophilized Parvalbumin in sterile 18MΩ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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Applications

The Parvalbumin can be used for immunoblots, absorption experiments in immunohistochemistry, radioimmunoassay and intracellular injection. For fluid-phase adsorption in immunohistochemistry we suggest the following procedure: A- Dilute 1 μ l of the monoclonal antibody 235 (Swant) against parvalbumin in 5 ml of the usual buffer for immunohistochemistry (final dilution 1:5'000). B- Add 1 μ g of the Parvalbumin to 1ml of the diluted antibody solution and mix well. C- Incubate for at least 6 hours in the cold. D- Apply to tissue-sections and incubate for 3 days. E- Complete the immunohistochemical reaction as usual (biotinylated second antibody, ABC-complex, DAB). As a result, the immunostaining should be strongly reduced or even completely prevented.

Stability

Lyophilized Parvalbumin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Parvalbumin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Full Length

Full L.

GENE INFORMATION

Gene Name

Pvalb parvalbumin [*Rattus norvegicus*]

Synonyms

Pvalb; parvalbumin; Pva; PALB1; Parvalbumin (calcium binding protein)

Gene ID

25269

mRNA Refseq

NM_022499

Protein Refseq

NP_071944

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UniProt ID	P02625
Chromosome Location	7q34
Function	calcium ion binding

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