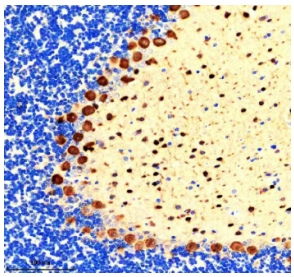
PVALB Antibody / Parvalbumin [clone AOFB-16] (RQ8890)

Catalog No.	Formulation	Size
RQ8890	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

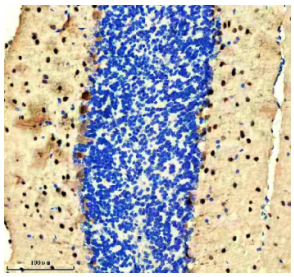
Recombinant RABBIT MONOCLONAL

Bulk quote request

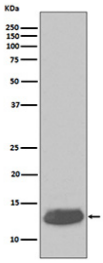
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AOFB-16
Purity	Affinity chromatography
UniProt	P20472
Localization	Nucleus, Cytoplasm, Cell junctions
Applications	Western Blot : 1:500 Immunohistochemistry (FFPE) : 1:50
Limitations	This PVALB antibody is available for research use only.



IHC staining of FFPE rat cerebellum tissue with PVALB antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse cerebellum tissue with PVALB antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human cerebellum tissue lysate with PVALB antibody. Predicted molecular weight ~12 kDa.

Description

Parvalbumin (PVALB) is a small calcium-binding protein belonging to the EF-hand superfamily. It is highly expressed in fast-twitch muscle fibers and specific populations of neurons, where it contributes to rapid calcium buffering and relaxation processes. In the nervous system, PVALB is a well-established marker for certain GABAergic interneurons.

PVALB plays a role in regulating intracellular calcium signaling, influencing muscle contraction dynamics and neuronal excitability. Altered PVALB expression has been associated with neurological conditions, including epilepsy and neurodevelopmental disorders. It is also widely studied in neuroanatomical mapping and muscle physiology research.

Using a high-quality PVALB antibody enables precise detection in applications such as western blot, immunohistochemistry, and immunofluorescence. A PVALB antibody from NSJ Bioreagents ensures sensitivity and reproducibility for studies involving neuronal identity, calcium signaling, and muscle biology. Selecting the appropriate PVALB antibody is essential for accurate and consistent experimental results.

Application Notes

Optimal dilution of the PVALB antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to Parvalbumin was used as the immunogen for the PVALB antibody.

Storage

After reconstitution, the PVALB antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.