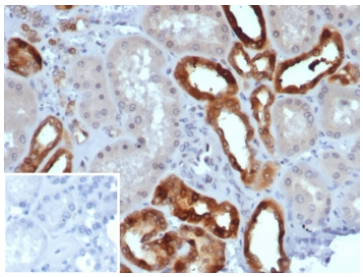
Parvalbumin Antibody / PVALB [clone PVALB/7601] (V4864)

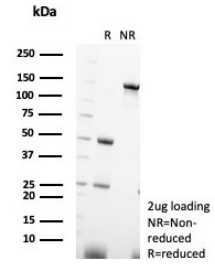
Catalog No.	Formulation	Size
V4864-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4864-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4864SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	PVALB/7601
Purity	Protein A/G affinity
UniProt	P20472
Localization	Nucleus, Cytoplasm, Cell junctions
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Parvalbumin antibody is available for research use only.



IHC staining of FFPE human kidney tissue with PVALB antibody (clone PVALB/7601). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free PVALB antibody (clone PVALB/7601) as confirmation of integrity and purity.

Description

The family of EF-hand type Ca2+-binding proteins includes calbindin (previously designated vitamin D-dependent Ca2+-binding protein), S-100Alpha and beta, calgranulins A (also designated MRP8), B (also designated MRP14) and C (S-100 like proteins) and the parvalbumin family members, including parvalbumin Alpha and parvalbumin beta, also designated oncomodulin (OCM). Structurally and evolutionarily conserved, parvalbumin Alpha and OCM proteins are distinct in expression and function. Parvalbumin Alpha, also designated parvalbumin (PV), is most abundantly expressed in fast-contracting muscles with lower expression levels in brain and some endocrine tissues, including kidney and parathyroid. Research indicates that parvalbumin Alpha plays a significant role in muscle relaxation. OCM was originally thought to have expression restricted to neoplastic tissues, early embryonic cells and certain tumor cell lines. Recent research shows that OCM is also expressed and secreted by macrophages where, in the retina it binds to retinal ganglion cells (RGCs) and functions to promote axon regeneration. OCM has also been detected in the auditory sensory cells of the organ of Corti in mammals. In humans, two different loci on chromosome 7 have been identified as OCM and OCM-like (LOC4951). These genes encode proteins 109 amino acids in length which share 99% sequence identity.

Application Notes

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

Immunogen

A recombinant partial protein sequence (within amino acids 1-110) from the human protein was used as the immunogen for the Parvalbumin antibody.

Storage

Aliquot the Parvalbumin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com