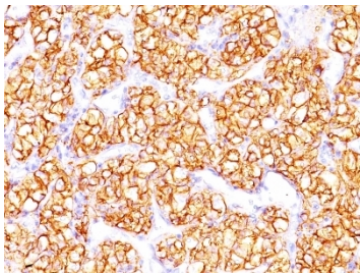
Carbonic Anhydrase 9 Antibody [clone PN-15] (V2939)

Catalog No.	Formulation	Size
V2939-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2939-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2939SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2939IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Citations (3)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PN-15
Purity	Protein G affinity chromatography
UniProt	Q16790
Localization	Cell surface and cytoplasmic
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 1-2ug/ml Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This Carbonic Anhydrase 9 antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with Carbonic Anhydrase 9 antibody (PN-15).

Description

Recognizes a glycoprotein identified as carbonic anhydrase IX (CAIX/CA9). Its epitope resides in the carbohydrate domain of CA9. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens. In normal kidney, CA9 is localized along the brush border of the pars convoluta and pars recta segments of the proximal tubule, as well as focally along the luminal surface of Bowman's capsule adjoining the outgoing proximal tubule. Reportedly, CA9 is expressed by 93% of primary and 84% of metastatic renal cell carcinomas. This mAb may be useful in the investigations of carcinomas of proximal nephrogenic differentiation especially those showing tubular differentiation.

Application Notes

Optimal dilution of the Carbonic Anhydrase 9 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

The microsomal fraction of human renal cortical tissue homogenate was used as the immunogen for the Carbonic Anhydrase 9 antibody.

Storage

Store the Carbonic Anhydrase 9 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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