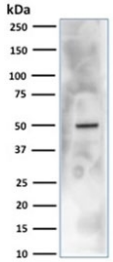
CA9 Antibody / Carbonic Anhydrase IX [clone CA9/3406] (V8463)

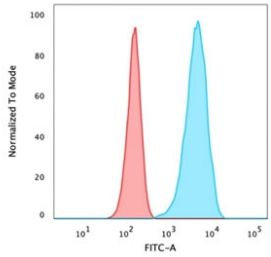
Catalog No.	Formulation	Size
V8463-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8463-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8463SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

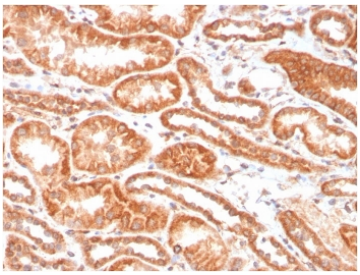
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CA9/3406
Purity	Protein G affinity chromatography
UniProt	Q16790
Localization	Cell surface, cytoplasmic
Applications	Flow cytometry: 1-2ug/million cells Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This CA9 antibody is available for research use only.



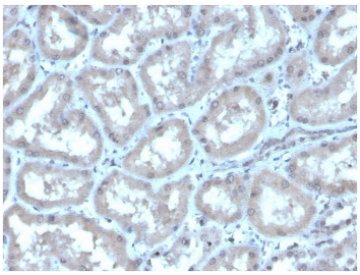
Western blot testing of human HEK293 cell lysate with CA9 antibody. Predicted molecular weight: 50-55 kDa but may be observed at higher molecular weights due to glycosylation.



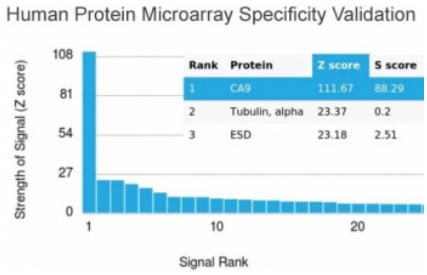
Flow cytometry testing of FPA fixed human U-87 MG cells with CA9 antibody; Red=isotype control, Blue= CA9 antibody.



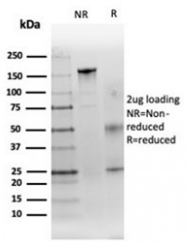
IHC staining of FFPE human kidney with CA9 antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CA9 antibody. These results demonstrate the foremost specificity of the CA9/3406 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CA9 antibody as confirmation of integrity and purity.

Description

CAIX 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, CAIX 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 CA9 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 314-410 from the human protein was used as the immunogen for the CA9 antibody.

Storage

Store the CA9 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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