

Product Datasheet

Carbonic Anhydrase IX Antibody / CA9 (orb699570)

Catalog Number	orb699570
Category	Antibodies
Description	Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). In normal kidney, gp200 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 Bowmans capsule adjoining the outgoing proximal tubule. Reportedly, gp200 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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography
Immunogen	A portion of amino acids 314-410 from the human protein was used as the immunogen for the Carbonic Anhydrase IX antibody.
UniProt ID	Q16790
Tested applications	FACS, IHC-P

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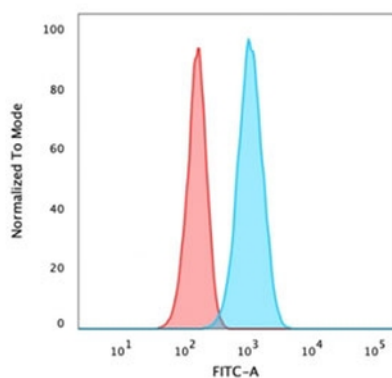
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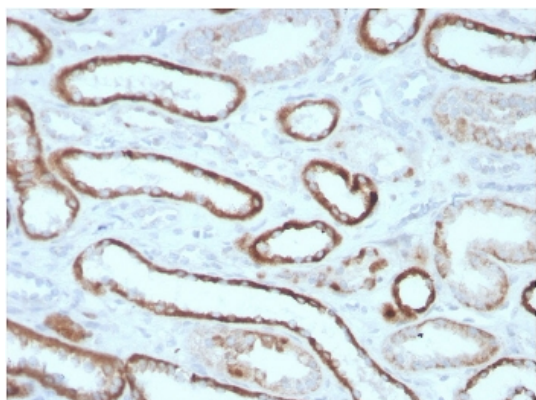
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Dilution range	Flow cytometry: 1-2ug/million cells, Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Application notes	Optimal dilution of the Carbonic Anhydrase IX antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	CA9/3405
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Flow cytometry testing of FPA fixed human U-87 MG cells with Carbonic Anhydrase IX antibody (clone CA9/3405); Red=isotype control, Blue= Carbonic Anhydrase IX antibody.



IHC staining of FFPE human renal cell carcinoma with Carbonic Anhydrase IX antibody (clone CA9/3405). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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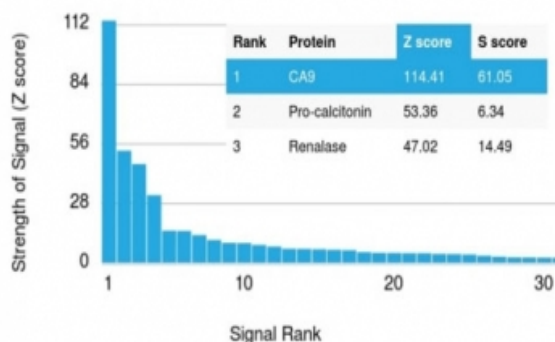
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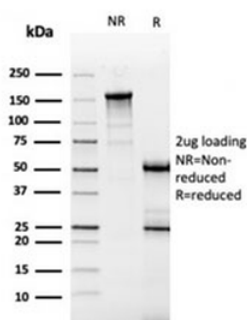
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Carbonic Anhydrase IX antibody (clone CA9/3405). These results demonstrate the foremost specificity of the CA9/3405 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 Carbonic Anhydrase IX antibody (clone CA9/3405) as confirmation of integrity and purity.

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