

Product Datasheet

Carbonic Anhydrase IX Antibody / CAIX / CA9 (orb1822796)

Catalog Number	orb1822796
Category	Antibodies
Description	Carbonic Anhydrase IX catalyzes the interconversion between carbon dioxide and water and the dissociated ions of carbonic acid (i.e. bicarbonate and hydrogen ions). [UniProt]
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein A/G affinity
Immunogen	A recombinant human protein fragment (within amino acids 314-410) was used as the immunogen for the Carbonic Anhydrase IX antibody.
UniProt ID	Q16790
Tested applications	IHC-P
Dilution range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Application notes	Optimal dilution of the Carbonic Anhydrase IX antibody should be determined by the researcher.

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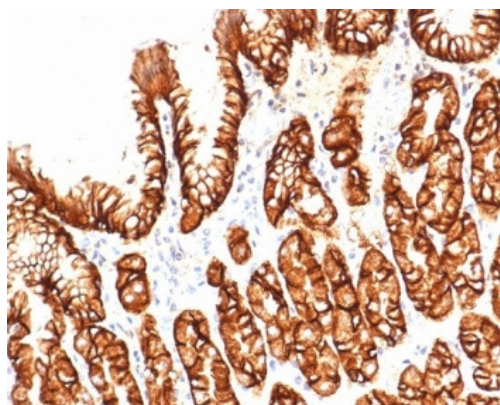
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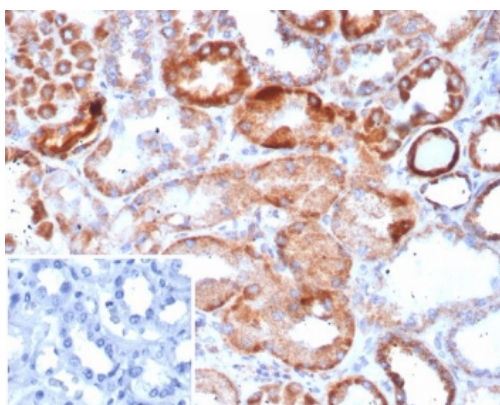
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Antibody Type	Primary Antibody
Clone Number	CA9/4019
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human kidney tissue with Carbonic Anhydrase IX antibody (clone CA9/4019). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human kidney tissue with Carbonic Anhydrase IX antibody (clone CA9/4019). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.

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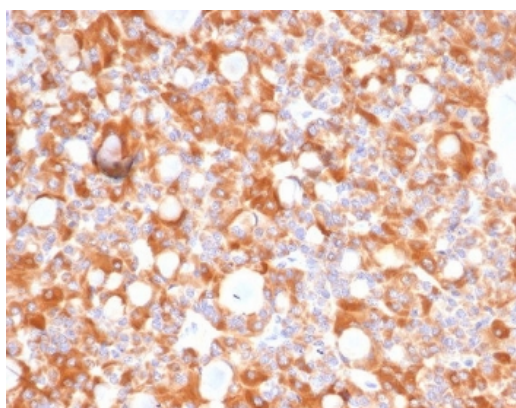
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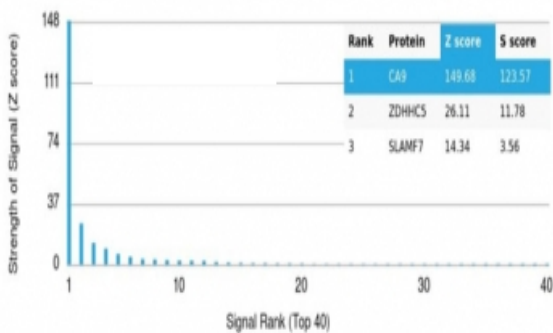
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IHC staining of FFPE human parathyroid tissue with Carbonic Anhydrase IX antibody (clone CA9/4019). HIER: boil tissue sections in pH9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.



Analysis of a HuProt (TM) microarray containing more than 19000 full-length human proteins using Carbonic Anhydrase IX antibody (clone CA9/4019). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 targets on 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-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.

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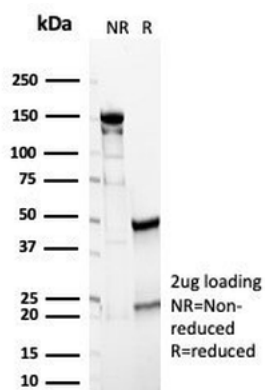
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SDS-PAGE analysis of purified, BSA-free Carbonic Anhydrase IX antibody (clone CA9/4019) as confirmation of integrity and purity.

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