Renal Cell Carcinoma (Carbonic Anhydrase IX) Antibody

Mouse Monoclonal Antibody [Clone CA9/4019]

Catalog No	Format	Size
768-MSM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
768-MSM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
768-MSM9-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

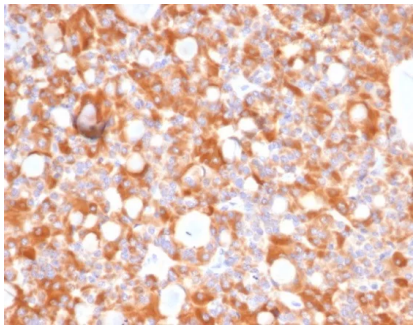
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

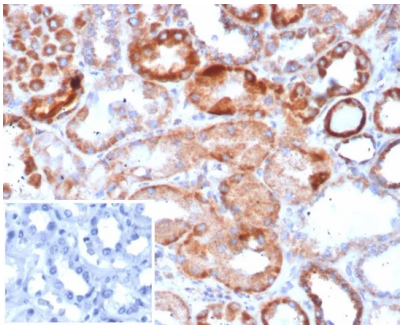
Clone	CA9/4019
Gene Name	CA9
Immunogen	Recombinant human CA9 protein fragment (around aa 314-410) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	55kDa
Cellular Localization	Cell Surface. Cytoplasm.
Species Reactivity	Human, Mouse
Positive Control	Normal kidney or renal cell carcinoma (IHC).

**Optimal dilution for a specific application should be determined.*

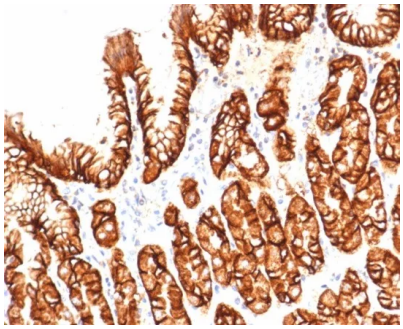
Product Images for Renal Cell Carcinoma (Carbonic Anhydrase IX) Antibody



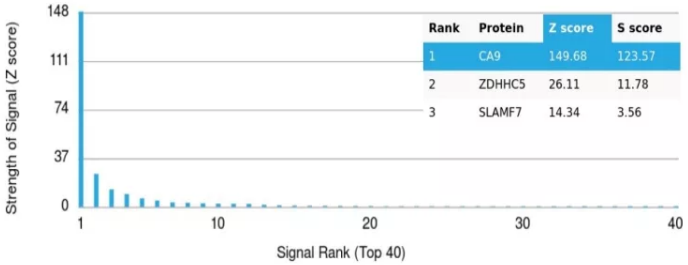
Formalin-fixed, paraffin-embedded human parathyroid stained with CAIXMouse Monoclonal Antibody (CA9/4019). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



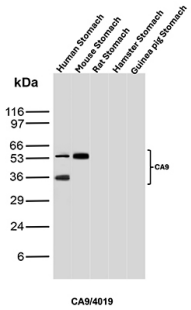
Formalin-fixed, paraffin-embedded human kidney stained with CAIX-Monospecific Mouse Monoclonal Antibody (CA9/4019). Inset: PBS instead of primary antibody; secondary only negative control.



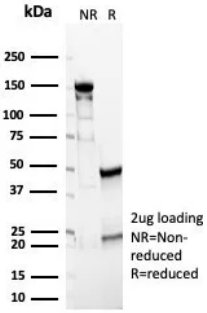
Formalin-fixed, paraffin-embedded human kidney stained with CAIX-Monospecific Mouse Monoclonal Antibody (CA9/4019). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing CAIX-Monospecific Mouse Monoclonal Antibody (CA9/4019). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.



Western Blot Analysis of Human Stomach, Mouse Stomach, Rat Stomach, Hamster Stomach and Guinea pig Stomach tissue lysates using CA9 Mouse Monoclonal Antibody (CA9/4019).



SDS-PAGE Analysis of Purified CAIX-Monospecific Mouse Monoclonal Antibody (CA9/4019). Confirmation of Integrity and Purity of Antibody.

Specificity & Comments

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 Bowman's 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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Angiogenesis

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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