
CA IX (Clone ZM41) Mouse Monoclonal Antibody

Specificity: Human. Others not tested

Immunogen: Recombinant human CA9 protein

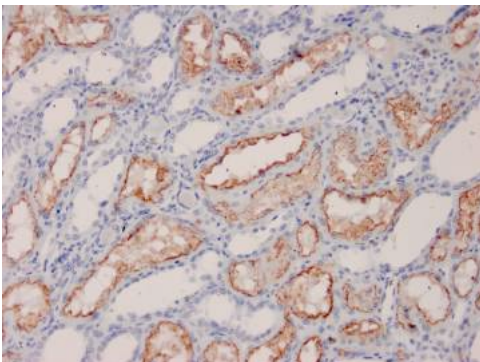
Ig Class: IgG2b/ κ

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Normal renal tissue. *Cellular Localization:* Membrane. *Intended Use:* In vitro diagnosis (IVD).

Description: Carbonic anhydrases are a family of zinc containing metalloproteins that catalyze the reversible hydration of CO₂. Among these, carbonic anhydrase IX (CA IX) is anchored to the cell membrane and is expressed in the human gastrointestinal tract, chiefly in the stomach and gall bladder. It is interesting to note that CA IX is overexpressed in epithelial malignancies of the uterus, cervix, lung, breast, and kidney; none of the associated normal tissues express this isozyme. Preliminary data suggest consistent immunoreactivity for anti-CA IX in clear cell renal cell carcinoma (RCC) with demonstrated sensitivity of 85% to 100%. Anti-CA IX, together with antibodies against PAX-2, Ksp-cadherin, and CD117, contributes to a robust panel that can be used to help make this distinction. Strong diffuse-to-multifocal immunostaining for anti-CA IX is observed in the large majority of urothelial carcinomas as opposed to the extremely weak and focal immunoreactivity seen in collecting duct carcinoma (CDC). Anti-CA IX can thus aid in distinguishing between urothelial carcinoma and CDC.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



References:

1. Leppilampi M, et al. *World J Gastroenterol.* 2003; 9:1398-1403.
2. Gupta R, et al. *Am J Surg Pathol.* 2009; 33:241-7.

Formalin-fixed, paraffin-embedded normal human renal tissue stained with anti-CA IX antibody using peroxidase-conjugate and DAB chromogen. Note the membranous staining of tubular cells

Cat. #Z2346 (1.0 ml)

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