

## Mouse Anti-Human Carbonic Anhydrase IX (CA IX) Clone MRQ-54 mAb

**Catalog No.** MON3370                      **Quantity:** 1 ml

**Description:** CA IX are a family of zinc containing metalloproteins that catalyze the reversible hydration of CO<sub>2</sub>. Among these, CA IX is anchored to the cell membrane and is expressed in the human gastrointestinal tract, chiefly in the stomach and gall bladder<sup>1</sup>. 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. CA IX is said to maintain the extracellular acidic pH, thus promoting cell growth in these tumors. Preliminary data suggest consistent immunoreactivity for anti-CA IX in clear cell renal cell carcinoma (RCC); it has sensitivity of 85% to 100% for clear cell RCC and this imparts diagnostic utility. Anti-CA IX may also play a role in distinguishing clear cell RCC from chromophobe RCC. Anti-CA IX, together with antibodies against Pax 2, Ksp-cadherin, and CD117, forms a robust panel that can be used to 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.

**Host:** Mouse

**Isotype:** IgG2b

**Clone:** MRQ-54

**Formulation:** MON3370 is a mouse monoclonal antiserum against CA IX and is diluted in Tris buffer, pH 7.3-7.7, with 1% BSA, and preserved with <0.1% sodium azide. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

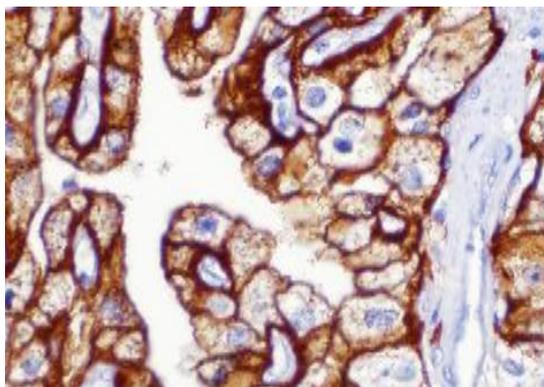
**Applications:** Paraffin section  
Start working dilution 1:50-1:200\*

**Application Notes:** \* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

**Storage & Stability:** Store antibody at 2-8°C until expiration date. **Do not freeze**

**Related Products:** Also available in a Ready To Use format upon request, 7.0 ml.





NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



**Cell Sciences**<sup>®</sup>  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)