

## Anti-Carbonic Anhydrase 8 Antibody (2N156)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	2N156
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Anti-CA8 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: 293T Whole Cell Lysate.</li><li>-Lane B: A549 Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:33 kDa.</li><li>-Observed band size:36 kDa.</li></ul> <p>2. Mouse CA8 was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg 293T Whole Cell Lysate.</li><li>-Lane B:0.5 mg A549 Whole Cell Lysate.</li><li>-2 µL anti-Mouse CA8 rabbit monoclonal antibody and 15 µL of 50 % Protein G agarose.</li><li>-Primary antibody:</li><li>-Anti-Mouse CA8 rabbit monoclonal antibody, at 1:200 dilution.</li><li>-Secondary antibody:</li><li>-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.</li><li>-Developed using the odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 33 kDa.</li><li>-Observed band size: 37 kDa</li></ul>
Application:	IP,WB
Recommended	WB: 1:500-1:2000; IP: 1-4 µL/mg of lysate

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Mouse Carbonic Anhydrase VIII / CA8 protein (TMPY-02301)

Antigen Species: Mouse

Synonyms: Carp;Ca8;Car8;Cals1;Cals;carbonic anhydrase VIII;AW546993;wdl;RP23-180H12.1

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### Research Background

The carbonic anhydrases (or carbonate dehydratases) are classified as metalloenzyme for its zinc ion prosthetic group and form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that takes part in maintaining acid-base balance in blood and other tissues. The carbonic anhydrase (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. Carbonic anhydrase protein (CA) VIII, which is a member of the CA gene family, has been shown to have no catalytic CA activity and its biological function is still unknown. Increased expression of CA-RP VIII was observed in 78% of colorectal carcinomas. It suggested that CA-RP VIII plays a role in the process of invasion in colorectal cancer.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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