Data Sheet (Cat.No.TMAY-03400)

TargetMol

Anti-Carbonic Anhydrase 2 Antibody (8R967)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	8R967
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of mouse CA2 in mouse stomach with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). 2. Immunochemical staining of mouse CA2 in mouse kidney with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). 3. Immunochemical staining of mouse CA2 in mouse intestine with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). 4. Immunochemical staining of mouse CA2 in mouse brain with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

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 II / CA2 protein (TMPY-02111)
Antigen Species:	Mouse
Synonyms:	Ltw-5;CAII;AI131712;carbonic anhydrase II;Ca2;Car-2;Lvtw-5

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 anhydrasekl (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. Carbonic anhydrase II is one of fourteen forms of human α carbonic anhydrases. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Renal carbonic anhydrase allows the reabsorption of sodium ions in the proximal tubule. Carbonic anhydrase II has been shown to interact with Band 3 and Sodium-hydrogen antiporter 1.

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