

Anti-Carbonic Anhydrase 4 Antibody (2I446)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2I446
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human CA4 in human lung with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to pulmonary capillaries.
	2. Immunochemical staining of human CA4 in human kidney with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to renal tubules.
Application:	ELISA,IHC-P
Recommended	ELISA: 1:5000-1:10000; 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: Human Carbonic Anhydrase IV / CA4 protein
Antigen Species:	Human
Synonyms:	RP23-167D6.1;AW456718;Ca4;Car4;carbonic anhydrase IV

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 IV (CAIV) is a membrane-associated enzyme anchored to plasma membrane surfaces by a phosphatidylinositol glycan linkage. CAIV is a high-activity isozyme in CO₂ hydration comparable to that of CAII. Furthermore, CAIV is more active in HCO₃⁻-dehydration than is CAII. However, the esterase activity of CAIV is decreased 150-fold compared to CAII.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481