Recombinant Carbonic Anhydrase IX/CA9 Monoclonal Antibody

catalog number: **AN300177P**

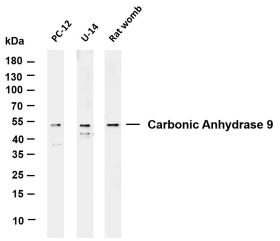
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

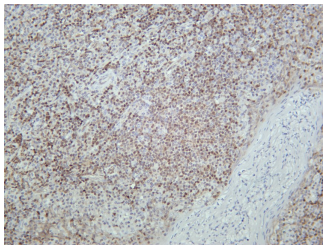
Reactivity	Human;Mouse;Rat
Immunogen	Recombinant Human Carbonic Anhydrase IX / CA9 protein
Host	Rabbit
Isotype	IgG
Clone	A1291
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
IHC	1:200-1000
WB	1:1000-5000
IF	1:200-1000
ELISA	1:5000-20000
IP	1:50-200

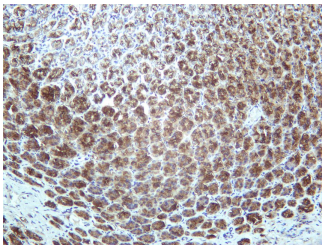
Data



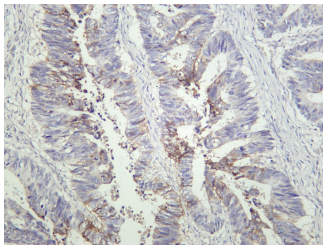
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Carbonic Anhydrase 9 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: PC-12 Lane 2: U-14 Lane 3: Rat womb Predicted band size: 49kDa Observed band size: 49kDa



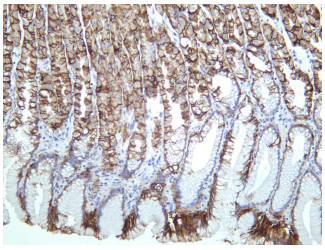
Human tonsil was stained with Anti-Carbonic Anhydrase 9 rabbit antibody



Rat stomach was stained with Anti-Carbonic Anhydrase 9 rabbit antibody



Human colon carcinoma was stained with Anti-Carbonic Anhydrase 9 rabbit antibody



Human stomach was stained with Anti-Carbonic Anhydrase 9 rabbit antibody

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes , including respiration , calcification , acid-base balance , bone resorption , and the formation of aqueous humor , cerebrospinal fluid , saliva , and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma , but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization , however , radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq , Jun 2014] ,

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