

Product datasheet for **TA368767**

Carbonic Anhydrase IX (CA9) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human gastric carcinoma tissue lysate IHC: 50-200 Positive control: Human colon cancer Predicted cell location: Membrane
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human CA9
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	50 kDa
Gene Name:	carbonic anhydrase 9
Database Link:	Entrez Gene 768 Human Q16790



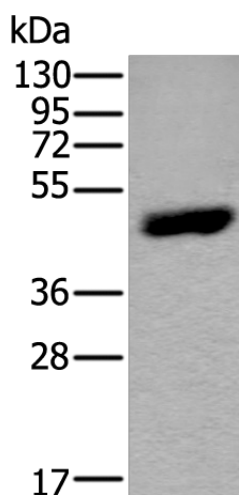
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Background:

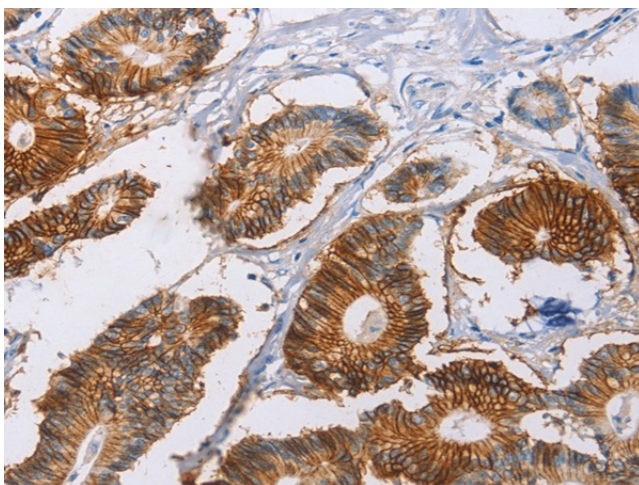
Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal 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.

Synonyms:

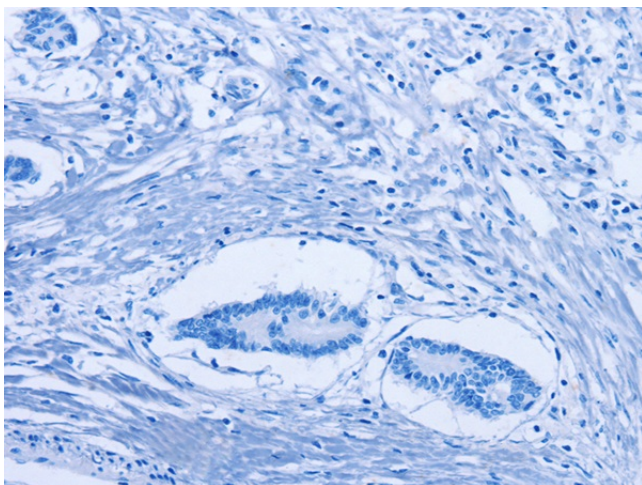
CA-IX; CAIX; G250; MN; P54/58N; pMW1

Product images:

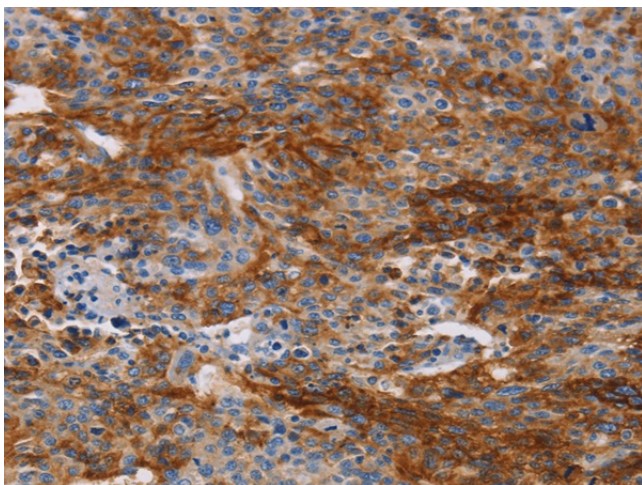
Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: Human gastric carcinoma tissue lysate
Primary antibody: TA368767 (CA9 Antibody) at dilution 1/450
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 9 minutes



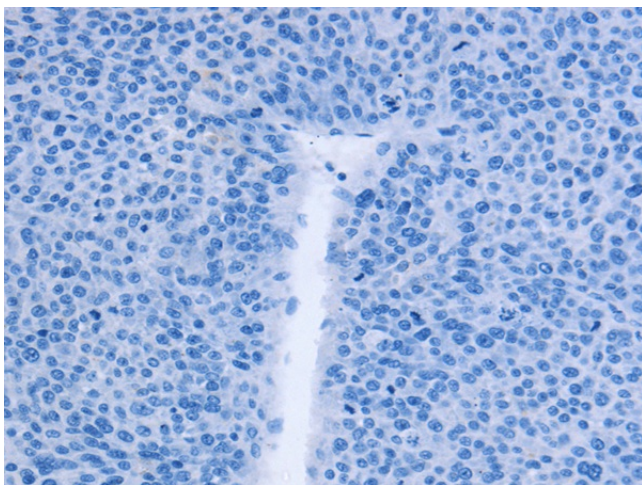
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA368767 (CA9 Antibody) at dilution 1/40 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA368767 (CA9 Antibody) at dilution 1/40, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA368767 (CA9 Antibody) at dilution 1/40 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA368767 (CA9 Antibody) at dilution 1/40, treated with fusion protein. (Original magnification: $\times 200$)