

Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb

Catalog No.: A13682 6 Publications

Basic Information

Observed MW

58kDa

Calculated MW

50kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:1000 - 1:4000

IF/ICC 1:50 - 1:200

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID768

Swiss Prot
Q16790

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

MN; CAIX; Carbonic Anhydrase 9 (CA9/G250)

Contact

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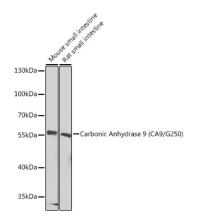
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of various lysates using Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb (A13682) at 1:1000 dilution

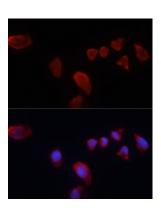
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

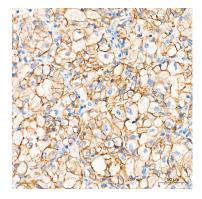
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

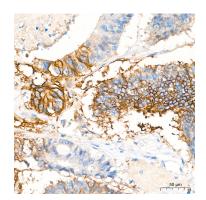
Exposure time: 60s.



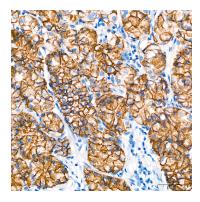
Immunofluorescence analysis of HeLa cells using Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb (A13682) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



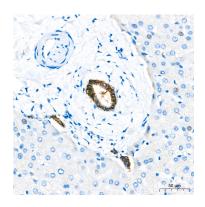
Immunohistochemistry analysis of paraffinembedded Human Renal cell carcinoma tissue using Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb (A13682) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human colon carcinoma tissue using Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb (A13682) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human stomach tissue using Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb (A13682) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human liver tissue using Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb (A13682) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.