

Carbonic Anhydrase 9 (CA9/G250) Rabbit pAb

Catalog No.: A1658

2 Publications

Basic Information

Observed MW

54kDa

Calculated MW

50kDa

Category

Primary antibody

Applications

ELISA,WB

Cross-Reactivity

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

Immunogen Information

Gene ID

768

Swiss Prot

Q16790

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 52-151 of human Carbonic Anhydrase 9 (CA9/G250) (NP_001207.2).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

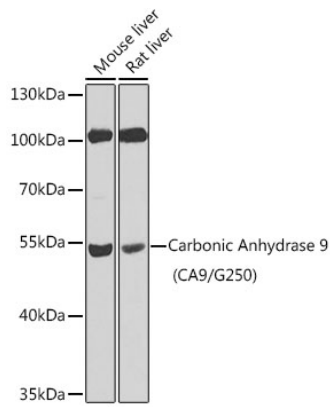
Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using Carbonic Anhydrase 9 (CA9/G250) antibody (A1658) at 1:100 dilution.

Secondary antibody: HRP 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 Basic Kit (RM00020).

Exposure time: 30s.