10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Carbonic anhydrase 9 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2352

Specification

KD-Validated Anti-Carbonic anhydrase 9 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q16790
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 50 kDa , observed, 54 kDa KDa**
Gene Name	**CA9**
Aliases	**CA9; Carbonic Anhydrase 9; CAIX; MN; Carbonic Anhydrase IX; Renal Cell Carcinoma-Associated Antigen G250; RCC-Associated Protein G250; RCC-Associated Antigen G250; Carbonate Dehydratase IX; Carbonic Dehydratase; Membrane Antigen MN; P54/58N; CA-IX; PMW1; EC 4.2.1.1; G250**
Immunogen	**A synthesized peptide derived from human CA9**

KD-Validated Anti-Carbonic anhydrase 9 Rabbit Monoclonal Antibody - Additional Information

Gene ID **768**

Other Names
Carbonic anhydrase 9, 4.2.1.1, Carbonate dehydratase IX, Carbonic anhydrase IX, CA-IX, CAIX, Membrane antigen MN, P54/58N, Renal cell carcinoma-associated antigen G250, RCC-associated antigen G250, pMW1, CA9, G250, MN

KD-Validated Anti-Carbonic anhydrase 9 Rabbit Monoclonal Antibody - Protein Information

Name CA9

Synonyms G250, MN

Function
Catalyzes the interconversion between carbon dioxide and water and the dissociated ions of carbonic acid (i.e. bicarbonate and hydrogen ions).

Cellular Location
Nucleus. Nucleus, nucleolus. Cell membrane; Single-pass type I membrane protein. Cell projection, microvillus membrane; Single-pass type I membrane protein. Note=Found on the surface microvilli

and in the nucleus, particularly in nucleolus

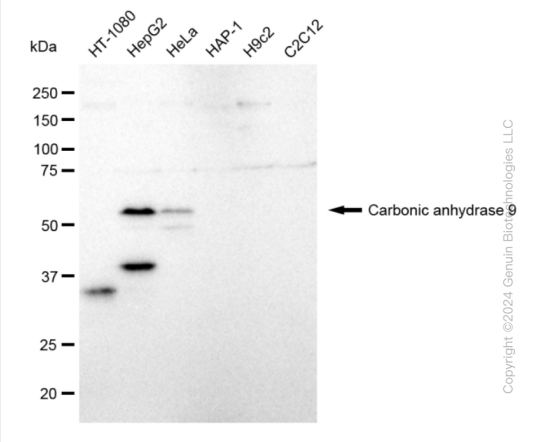
Tissue Location
Expressed primarily in carcinoma cells lines. Expression is restricted to very few normal tissues and the most abundant expression is found in the epithelial cells of gastric mucosa

KD-Validated Anti-Carbonic anhydrase 9 Rabbit Monoclonal Antibody - Protocols

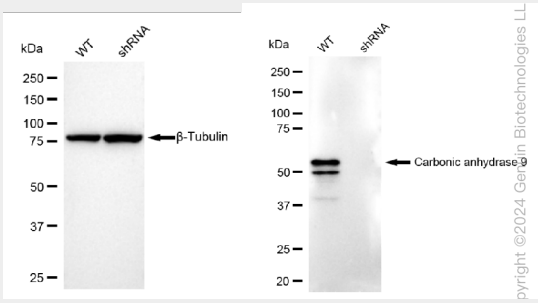
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Carbonic anhydrase 9 Rabbit Monoclonal Antibody - Images

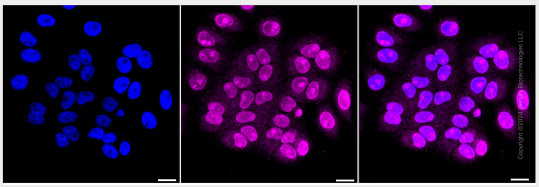


Western blotting analysis using anti-Carbonic anhydrase 9 antibody (Cat#AGI2352). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Carbonic anhydrase 9 antibody (Cat#AGI2352, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Carbonic anhydrase 9 antibody (Cat#AGI2352). Carbonic anhydrase 9 expression in wild type (WT) and Carbonic anhydrase 9 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Carbonic anhydrase 9 antibody (Cat#AGI2352, 1:5,000) and HRP-conjugated goat

anti-rabbit secondary antibody respectively.



Immunocytochemical staining of HepG2 cells with CA9 antibody (Cat#AGI2352, 1:1,000). Nuclei were stained blue with DAPI; CA9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.