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Anti-Carbonic Anhydrase 9 Antibody

Catalog # AP59494

Product Information

Application	WB, IF/IC
Primary Accession	Q16790
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49698

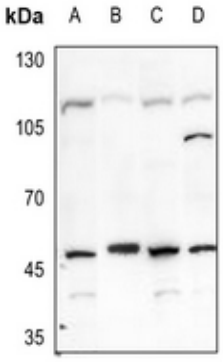
Additional Information

Gene ID	768
Other Names	G250; MN; Carbonic anhydrase 9; 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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Carbonic Anhydrase 9. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

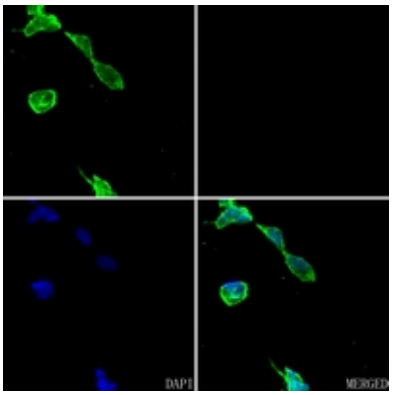
Protein Information

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

Images



Western blot analysis of Carbonic Anhydrase 9 expression in U2OS (A), mouse kidney (B), mouse brain (C), rat brain (D) whole cell lysates. (Predicted band size: 49 kD; Observed band size: 49 kD)



Immunofluorescent analysis of Carbonic Anhydrase 9 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.