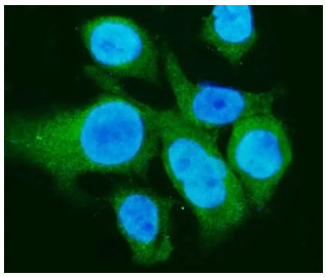
Carbonic Anhydrase I Antibody (R31859)

Catalog No.	Formulation	Size
R31859	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

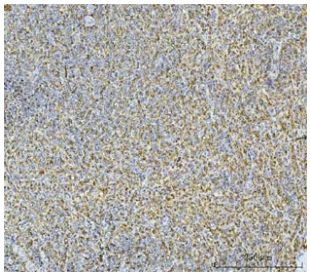
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P00915
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Carbonic Anhydrase I antibody is available for research use only.

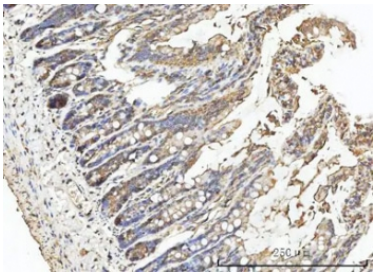


Immunofluorescent staining of FFPE human Caco-2 cells with Carbonic Anhydrase I antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

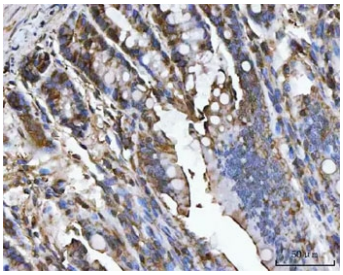
IHC staining of FFPE human colon adenocarcinoma tissue with Carbonic Anhydrase I antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



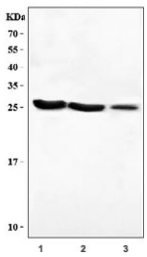
IHC staining of FFPE human spleen tissue with Carbonic Anhydrase I antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



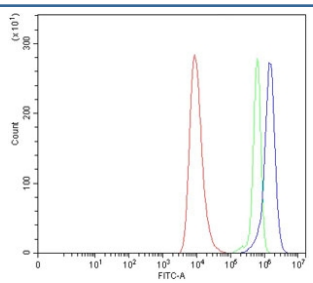
IHC staining of FFPE mouse colon tissue with Carbonic Anhydrase I antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat colon tissue with Carbonic Anhydrase I antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HEL, 2) rat spleen and 3) mouse spleen lysate with Carbonic Anhydrase I antibody. Predicted molecular weight: ~29 kDa.



Flow cytometry testing of human HEL cells with Carbonic Anhydrase I antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Carbonic Anhydrase I antibody.

Description

Carbonic anhydrase I is an enzyme that in humans is encoded by the CA1 gene. It is a member of the Carbonic anhydrase. The CA1 gene is mapped to 8q22. CAI has got about 260 amino acids. This protein is highly expressed in erythrocytes. As catalysts of the reversible hydration of carbon dioxide, CAI participates in a variety of biologic processes like respiration, calcification, acid-base balance etc.

Application Notes

Optimal dilution of the Carbonic Anhydrase I antibody should be determined by the researcher.

Immunogen

Amino acids 9-261 of human CA1 were used as the immunogen for the Carbonic Anhydrase I antibody.

Storage

After reconstitution, the Carbonic Anhydrase I antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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