Data Sheet (Cat.No.TMAC-00556)

Anti-Carbonic Anhydrase 1 Antibody (2E643)

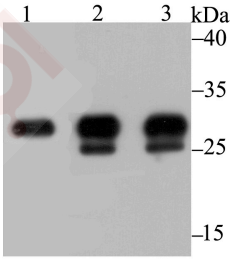
Product Details

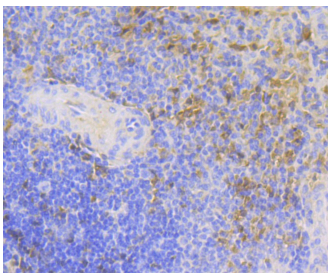
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 29 kDa.
Clone:	2E643
Purification:	ProA affinity purified

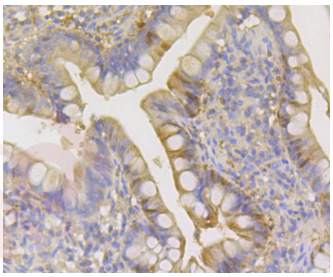
Applications

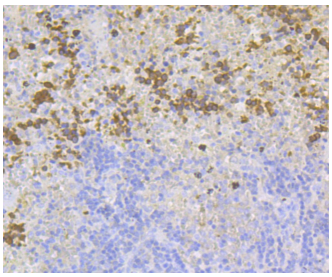
Verified Activity:

1. Western blot analysis of Carbonic Anhydrase I on different lysates using anti-Carbonic Anhydrase I antibody at 1/1,000 dilution. Positive control: Lane 1: Human colon, Lane 2: Mouse spleen, Lane 3: Mouse colon.
2. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Carbonic Anhydrase I antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human small intestine tissue using anti-Carbonic Anhydrase I antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-Carbonic Anhydrase I antibody. Counter stained with hematoxylin.









Application:	IHC,WB
Recommended	WB: 1:500-2000; IHC: 1:50-200

Properties

Stability & Storage:	Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human Carbonic Anhydrase I aa 1-200
Antigen Species:	human
Uniprot ID:	P00915

Research Background

Carbonic anhydrases (CAs), also designated carbonate dehydratases or carbonate hydrolyases, form a large family of genes that encode zinc metalloenzymes of great physiologic importance. As catalysts of the reversible hydration of carbon dioxide, these enzymes participate in a variety of biologic processes, including respiration, acid-base balance, bone resorption and calcification as well as the formation of aqueous humor, cerebrospinal fluid, saliva and gastric acid. Genes in the α-carbonic anhydrase family encode either active carbonic anhydrase isozymes or "acatalytic" (devoid of CO2 hydration activity) carbonic anhydrase-related proteins. Human CA I (CA1) is encoded by the CA1 gene, which maps to a region on chromosome 8 that harbors a cluster of CA genes. CA I localizes to the cytoplasm and research indicates that a severe deficiency of CA I does not result in any obvious hematological or renal consequences.

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