CA1 polyclonal antibody

Catalog: BS90160 Host: Rabbit Reactivity: Human, Mouse, Rat

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

29 kDa

Swiss-Prot:

P00915(Human) P13634(Mouse)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:500-1:2,000

IHC:1:50-1:200

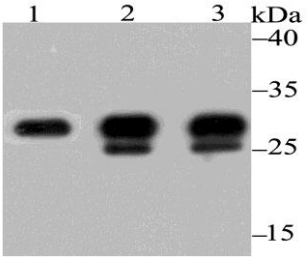
Storage&Stability:

Store at +4 ℃ after thawing. Aliquot store at -20 ℃. Avoid repeated freeze / thaw cycles.

Specificity:

CA1 polyclonal antibody detects endogenous levels of CA1 protein.

DATA:



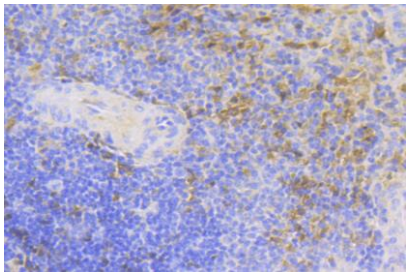
Western blot analysis of Carbonic Anhydrase I on different lysates using anti-Carbonic Anhydrase I antibody at 1/1,000 dilution.

Positive control:

Lane 1: Human colon

Lane 2: Mouse spleen

Lane 3: Mouse colon



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Carbonic Anhydrase I antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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