
Product Name: CA1 Mouse Monoclonal Antibody**Catalog #: AMM80660**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ELISA,FC
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS containing 0.03% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	Calculated MW: 29 kDa; Observed MW: 29 kDa

Antigen Information

Gene Name	CA1
Alternative Names	Car1; CA1
Gene ID	759.0
SwissProt ID	P00915
Immunogen	Purified recombinant fragment of CA1 (aa25-90) expressed in E. Coli.

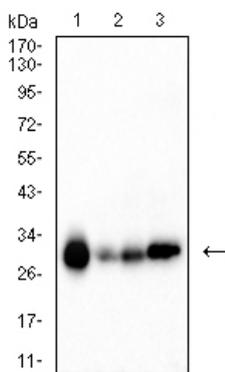
Background

CA1: carbonic anhydrase I. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show

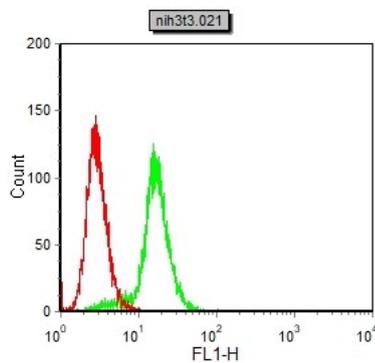
extensive diversity in tissue distribution and in their subcellular localization. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Transcript variants of CA1 utilizing alternative polyA₂ sites have been described in literature.

Research Area

Image Data



Western blot analysis using CA1 mouse mAb against rat spleen(1), mouse liver(2), rat liver(3), k562(4) lysate.



Flow cytometric analysis of NIH3T3 cells using CA1 mouse mAb (green) and negative control (red).