

## CA1 Antibody

Catalog No: #32127

Package Size: #32127-1 50ul #32127-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

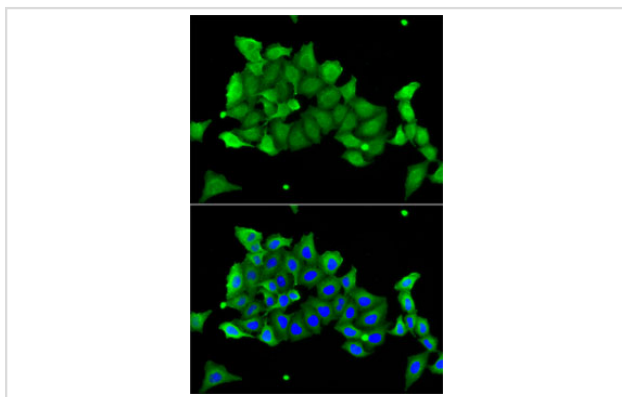
## Description

Product Name	CA1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total CA1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CA1.
Target Name	CA1
Other Names	CA1; Car1; Carbonatedehydratase1; carbonicanhydrasel; Carbonicanhydrase1
Accession No.	Swiss-Prot:P00915NCBI Gene ID:759
Uniprot	P00915
GeneID	759;
SDS-PAGE MW	29KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

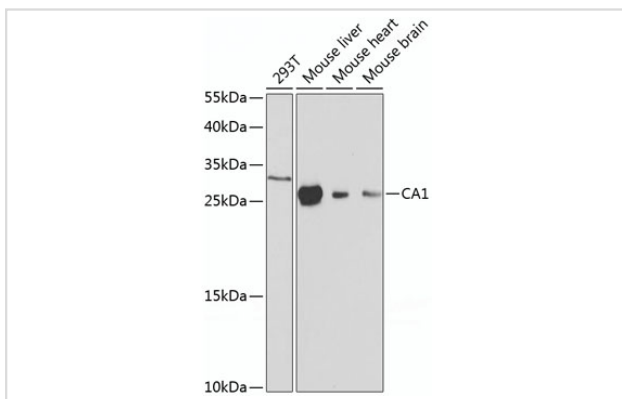
## Application Details

WB □ 1:500 - 1:2000IF □ 1:10 - 1:100

## Images



Immunofluorescence analysis of A-549 cells using CA1 . Blue: DAPI for nuclear staining.



Western blot analysis of extracts of various cell lines, using CA1 at 1:1000 dilution.

## Background

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. Variants of this gene have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyAsites have been described in literature.

Note: This product is for in vitro research use only