Datasheet for ABIN7266072

anti-CA5B antibody (AA 1-317)

2 Images

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Overview

Quantity:	100 µL
Target:	CA5B
Binding Specificity:	AA 1-317
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CA5B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	CA5B Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-317 of human CA5B (NP_009151.1).
Sequence:	MVVMNSLRVI LQASPGKLLW RKFQIPRFMP ARPCSLYTCT YKTRNRALHP LWESVDLVPG GDRQSPINIR WRDSVYDPGL KPLTISYDPA TCLHVWNNGY SFLVEFEDST DKSVIKGGPL EHNYRLKQFH FHWGAIDAWG SEHTVDSKCF PAELHLVHWN AVRFENFEDA ALEENGLAVI GVFLKLGKHH KELQKLVDTL PSIKHKDALV EFGSFDPSCL MPTCPDYWTY SGSLTTPPLS ESVTWIIKKQ PVEVDHDQLE QFRTLLFTSE GEKEKRMVDN FRPLQPLMNR TVRSSFRHDY VLNVQAKPKP ATSQATP
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

Product Details

Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	CA5B
Alternative Name:	CA5B (CA5B Products)
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. CA VB is localized in the mitochondria and shows the highest sequence similarity to the other mitochondrial CA, CA VA. It has a wider tissue distribution than CA VA, which is restricted to the liver. The differences in tissue distribution suggest that the two mitochondrial carbonic anhydrases evolved to assume different physiologic roles. [provided by RefSeq, Jul 2008],CA5B,CA-VB,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,CA5B
Molecular Weight:	36kDa
Gene ID:	11238
UniProt:	Q9Y2D0

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

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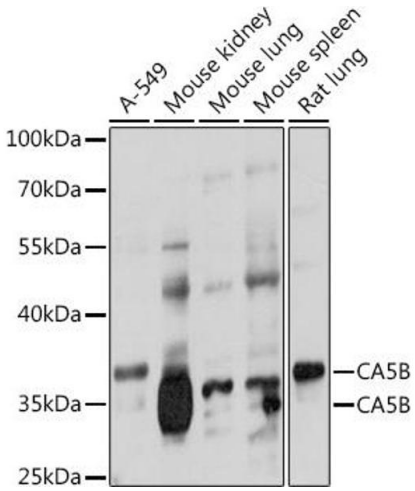
Handling

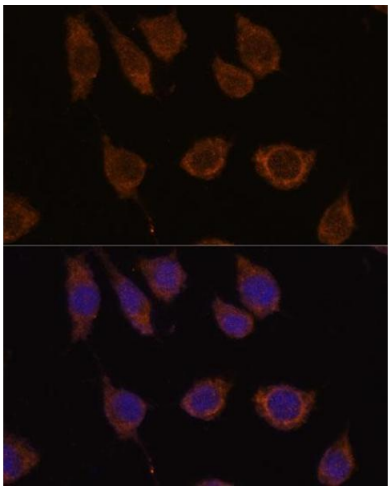
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using CB antibody (ABIN7266072) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.



Immunofluorescence

Image 2. Immunofluorescence analysis of L929 cells using CB antibody (ABIN7266072) at dilution of 1:100. Blue: DAPI for nuclear staining.