

## Carbonic Anhydrase XII/CA12 Monoclonal Antibody

**catalog number: AN200181P**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

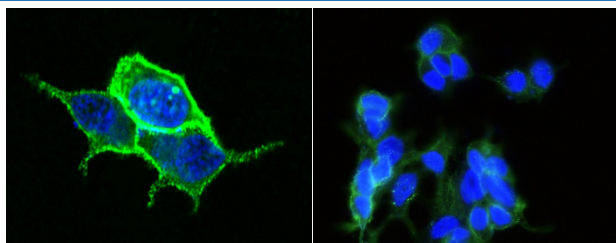
### Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human Carbonic Anhydrase XII/CA12 protein
<b>Host</b>	Mouse
<b>Isotype</b>	IgG1
<b>Clone</b>	6A2
<b>Purification</b>	Protein A
<b>Buffer</b>	0.2 µm filtered solution in PBS with 10% Trehalose, pH7.0

### Applications Recommended Dilution

<b>ICC/IF</b>	1:20-1:100
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### Data



Immunofluorescence analysis of Human CA12 in MCF7 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Mouse anti-Human CA12 monoclonal antibody (1:60). Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (left panel, captured by laser confocal scanning microscope; right panel, captured by fluorescence microscope), counterstained with DAPI (blue). Positive staining was localized to cytomembrane.

### Preparation & Storage

<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Ice bag

### 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. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene.

### For Research Use Only