

## CA I Monoclonal Antibody

|                              |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| <b>Catalog No :</b>          | YM0085                                                                   |
| <b>Reactivity :</b>          | Human                                                                    |
| <b>Applications :</b>        | WB;ELISA                                                                 |
| <b>Target :</b>              | CA I                                                                     |
| <b>Fields :</b>              | >>Nitrogen metabolism;>>Metabolic pathways                               |
| <b>Gene Name :</b>           | CA1                                                                      |
| <b>Protein Name :</b>        | Carbonic anhydrase 1                                                     |
| <b>Human Gene Id :</b>       | 759                                                                      |
| <b>Human Swiss Prot No :</b> | P00915                                                                   |
| <b>Mouse Swiss Prot No :</b> | P13634                                                                   |
| <b>Immunogen :</b>           | Purified recombinant fragment of CA I (aa25-90) expressed in E. Coli.    |
| <b>Specificity :</b>         | CA I Monoclonal Antibody detects endogenous levels of CA I protein.      |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Monoclonal, Mouse                                                        |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications. |
| <b>Purification :</b>        | Affinity purification                                                    |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)                           |
| <b>Molecularweight :</b>     | 29kD                                                                     |
| <b>Cell Pathway :</b>        | Nitrogen metabolism;                                                     |

**P References :**

1. Res Exp Med (Berl). 1998 Dec;198(4):175-85.
2. Drugs Exp Clin Res. 2001;27(2):53-60.

**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. This CA1 gene is closely linked to the CA2 and CA3 genes on chromosome 8. It encodes a cytosolic protein that is found at the highest level in erythrocytes. Allelic variants of this gene have been described in some populations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014],

**Function :**

catalytic activity:H(2)CO(3) = CO(2) + H(2)O.,cofactor:Zinc.,function:Reversible hydration of carbon dioxide.,similarity:Belongs to the alpha-carbonic anhydrase family.,

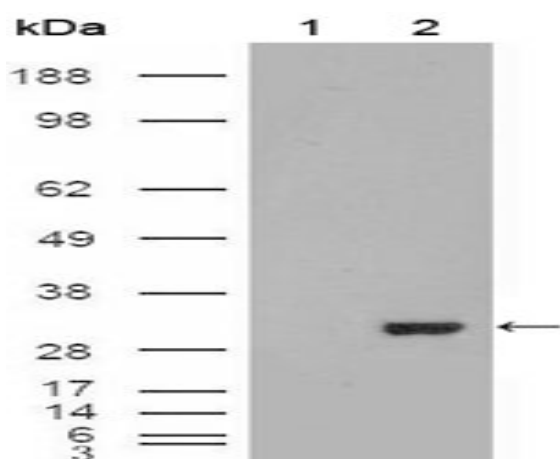
**Subcellular Location :**

Cytoplasm .

**Expression :**

Pancreas,Spleen,

## Products Images



Western Blot analysis using CA I Monoclonal Antibody against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY CA1 cDNA (2).