ELK Biotechnology

# CA IX rabbit pAb

## Cat No.:ES1812

**For research use only**

**Overview**

| | |
|---|---|
| **Product Name** | CA IX rabbit pAb |
| **Host species** | Rabbit |
| **Applications** | WB;ELISA |
| **Species Cross-Reactivity** | Human;Rat;Mouse; |
| **Recommended dilutions** | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human CA IX. AA range:33-82 |
| **Specificity** | CA IX Polyclonal Antibody detects endogenous levels of CA IX protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage** | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | Carbonic anhydrase 9 |
| **Gene Name** | CA9 |
| **Cellular localization** | Nucleus . Nucleus, nucleolus . Cell membrane ; Single-pass type I membrane protein . Cell projection, microvillus membrane ; Single-pass type I membrane protein . Found on the surface microvilli and in the nucleus, particularly in nucleolus. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | 58kD |
| **Human Gene ID** | 768 |
| **Human Swiss-Prot Number** | Q16790 |
| **Alternative Names** | CA9; G250; MN; Carbonic anhydrase 9; Carbonate dehydratase IX; Carbonic anhydrase IX; CA-IX; CAIX; Membrane antigen MN; P54/58N; Renal cell carcinoma-associated antigen G250; RCC-associated antigen G250; pMW1 |

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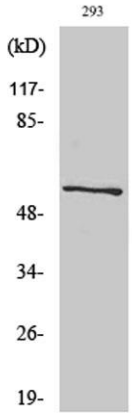
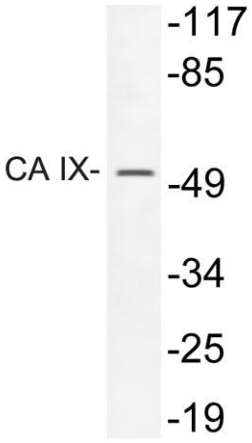
## Background

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 IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq, Jun 2014],




Western Blot analysis of various cells using CA IX Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).




Western blot analysis of lysate from 293 cells treated with insulin, using CA IX antibody.

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