

## Product datasheet for **AP17162PU-N**

### Carbonic Anhydrase IX (CA9) (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1:50 - 1:100. ELISA: 1:1,000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide selected from the Center region of human CA9
Specificity:	This antibody detects Carbonic anhydrase 9 at Center.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	carbonic anhydrase 9
Database Link:	<a href="#">Entrez Gene 768 Human Q16790</a>

**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 the only tumor-associated carbonic anhydrase isoenzyme 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.



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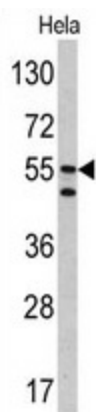
**Synonyms:** Carbonic anhydrase IX, Carbonate dehydratase IX, Membrane antigen MN, P54/58N, pMW1, CA9, CA IX, G250

**Note:** Molecular weight: 49698 Da

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Nitrogen metabolism

**Product images:**



Western blot analysis of CA9 antibody (Center) in HeLa cell line lysates (35 ug/lane). CA9 (arrow) was detected using the purified Pab.