

## Recombinant Human CA9 Protein, DYKDDDDK-tagged

Cat. No. CA9-151H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human carbonic anhydrase 9(CA9)(NM\_001216), with a DYKDDDDK tag, was expressed in human cells.

**Species** Human

**Source** Human Cells

**ProteinLength** 1-459 aa

**Description** 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.

**Form** Purified protein formulated in a sterile solution of TBS buffer, pH7.331, without any preservatives.

**Molecular Mass** 45.8 kDa

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<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)
<b>Purity</b>	>90% by SDS-PAGE gel and Coomassie Blue staining
<b>Applications</b>	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

## GENE INFORMATION

<b>Gene Name</b>	CA9 carbonic anhydrase IX [ Homo sapiens ]
<b>Official Symbol</b>	CA9
<b>Synonyms</b>	CA9; carbonic anhydrase IX; carbonic anhydrase 9; CAIX; carbonic dehydratase; MN; RCC associated protein G250; pMW1; CA-IX; P54/58N; membrane antigen MN; carbonate dehydratase IX; RCC-associated antigen G250; RCC-associated protein G250; renal cell carcinoma-associated antigen G250;
<b>Gene ID</b>	768
<b>mRNA Refseq</b>	NM_001216
<b>Protein Refseq</b>	NP_001207
<b>MIM</b>	603179
<b>UniProt ID</b>	Q16790

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