

Recombinant Human CA9 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CA9-4196H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CA9 MS Standard C13 and N15-labeled recombinant protein (NP_001207) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	49.7 kDa
AA Sequence	MAPLCSPWLPLLIPAPAPGLTVQLLLSLLLLMPVHPQRLPRMQEDSPLGGGSSGED DPLGEEDLPSEEDSPREEDPPGEEDLPGEEDLPGEEDLPEVKPKSEEEGSLKLEDL

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PTVEAPGDPQEPQNNHRDKEGDDQSHWRYGGDPPWPRVSPACAGRFQSPVDIR
 PQLAAFPCALRPLELLGFQLPPLPELRLRNNGHSVQLTLPPGLEMALGPGREYRALQ
 LHLHWGAAGRPGSEHTVEGHRFP AEIHVVHLSTAFARVDEALGRPGLAVLAAFLE
 EGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSDFSRYFQYEGSLTTPPCA
 QGVIWTVFNQTVMLSAKQLHTLSDTLWGP GDSRLQLNFRATQPLNGRVIEASFPAG
 VDSSPRAAEPVQLNSCLAAGDILALVFGLLFAVTSVAFLVQMRRQHRRGTKGGVSY
 RPAEVAETGATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CA9 carbonic anhydrase IX [Homo sapiens (human)]


Official Symbol CA9

Synonyms 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;

Gene ID 768

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mRNA Refseq [NM_001216](#)


Protein Refseq [NP_001207](#)

MIM [603179](#)

UniProt ID [Q16790](#)

SDS-PAGE



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