

Recombinant Full Length Human CA9 Protein

Cat. No. CA9-48HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length, Human Carbonic Anhydrase IX (amino acids 1-459) with N terminal proprietary tag, 76.56kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	459 amino acids
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 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. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12.
Form	Liquid
Molecular Mass	76.560kDa inclusive of tags
AA Sequence	MAPLCSPWL PLLIPAPAG LTVQLLLSLL LLMPVHPQRL PRMQEDSPLG

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GGSSGEDDPL GEEDLPSEED SPREEDPPGE EDLPGEEDLP GEEDLPEVKP
 KSEEEGSLKL EDLPTVEAPG DPQEPQNNAH RDKEGDDQSH WRYGGDPPWP
 RVSPACAGRF QSPVDIRPQL AAFCPALRPL ELLGFQLPPL PELRLRNNGH
 SVQLTLPPL EMALGPGREY RALQLHLHWG AAGRPGSEHT VEGHRFP AEI
 HVVHLSTAF A RVDEALGRPG GLAVLAAFL E EGPEENSAYE QLLSRLEEIA
 EEGSETQVPG LDISALLPSD FSR YFYEGS LTTPPCAQGV IWT VFNQTM
 LSAKQLHTLS DTLWGPGDSR LQLNFRATQP LNGRVIEASF PAGVDSSPRA
 AEPVQLNSCL AAGDILALVF GLLFAVTSVA FLVQMRRQHR RGTKGGVSYR
 PAEVAETGA

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

GENE INFORMATION

Gene Name CA9 carbonic anhydrase IX [Homo sapiens]

Official Symbol CA9

Synonyms CA9; carbonic anhydrase IX; carbonic anhydrase 9; CAIX; carbonic dehydratase; MN; RCC associated protein G250

Gene ID 768

mRNA Refseq NM_001216

Protein Refseq NP_001207

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MIM	603179
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UniProt ID	Q16790
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