

## Recombinant Human CA9 Protein, GST-Tagged

Cat. No. CA9-0250H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human CA9 full-length ORF (NP_001207.1, 1 a.a. - 459 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	1-459 aa
<b>Description</b>	<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. [provided by RefSeq, Jun 2014]</p>
<b>Molecular Mass</b>	76.1 kDa
<b>AA Sequence</b>	MAPLCPSWLPLLIPAPAPGLTVQLLLSLLLLMPVHPQRLPRMQEDSPLGGGSSGED DPLGEEDLPSEEDSPREEDPPGEEDLPGEEDLPGEEDLPGEEDLPEVKPKSEEEGSLKLEDL

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PTVEAPGDPQEPQNNHRDKEGDDQSHWRYGGDPPWPRVSPACAGRFQSPVDIR  
 PQLAAFPCALRPLELLGFQLPPLPELRLRNNGHSVQLTLPPGLEMALGPGREYRALQ  
 LHLHWGAAGRPGSEHTVEGHRFP AEIHVVHLSTAFARVDEALGRPGGLAVLAAFLE  
 EGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSDFSRYFQYEGSLTTPPCA  
 QGVIWTVFNQTVMLSAKQLHTLSDTLWGP GDSRLQLNFRATQPLNGRVIEASFPAG  
 VDSSPRAAEPVQLNSCLAAGDILALVFGLLFAVTSVAFLVQMRRQHRRGTGGVSY  
 RPAEVAETGA

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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<b>Notes</b>	Best use within three months from the date of receipt of this protein.
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<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
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<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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## GENE INFORMATION

<b>Gene Name</b>	CA9 carbonic anhydrase IX [ Homo sapiens ]
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<b>Official Symbol</b>	CA9
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<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;
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<b>Gene ID</b>	768
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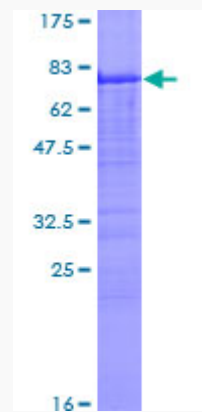
mRNA Refseq [NM\\_001216](#)

Protein Refseq [NP\\_001207](#)

MIM [603179](#)

UniProt ID [Q16790](#)

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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