

## Human CA9 Knockdown Cell Lysate

**Cat. No.** CA9-329HKCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	WB-validated CA9 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<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.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	50 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and</p>

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	equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CA9 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Nitrogen metabolism
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	CA9 carbonic anhydrase IX [ Homo sapiens (human) ]
<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

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**Protein Refseq** NP\_001207

**MIM** 603179

**UniProt ID** Q16790

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