

Recombinant Human CA9 Protein, His\Avi-tagged

Cat. No. CA9-192H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human Carbonic Anhydrase 9 is produced by our Mammalian expression system and the target gene encoding Gln38-Asp414 is expressed with a 6His, Avi tag at the Cterminus.
Species	Human
Source	Human Cells
ProteinLength	38-414 a.a.
Description	Carbonic anhydrases IX (CA IX), also known as membrane antigen MN or CA9, is a member of the carbonic anhydrase (CA) family and may be involved in cell proliferation and cellular transformation. CAs are zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide ($\text{H}_2\text{O} + \text{CO}_2 = \text{H}^+ + \text{HCO}_3^-$) and thus participate in a variety of biological and physical processes. CA9 is a transmembrane enzyme expressed primarily in carcinoma cells. It is one of the best markers for hypoxia and for RCC. Appears to be a novel specific biomarker for a cervical neoplasia.
Form	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Molecular Mass	Predicted Molecular Weight: 43.6kDa Apparent Molecular Weight: 60kDa, reducing conditions.
AA Sequence	Gln38-Asp414

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Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	CA9 carbonic anhydrase 9 [Homo sapiens (human)]
Official Symbol	CA9
Synonyms	CA9; CA-IX; Carbonic Anhydrase IX; Carbonate dehydratase IX; G250; MN; P54/58N; RCC; RCC-associated protein G250; CAIX
Gene ID	768
mRNA Refseq	NM_001216.3

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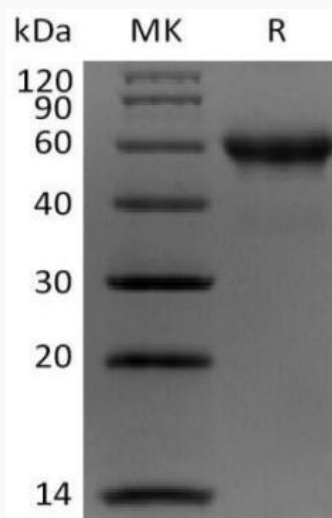
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Protein Refseq NP_001207.2

MIM 603179

UniProt ID Q16790

SDS-PAGE



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