

Datasheet for ABIN7274014

**CA9 Protein (AA 38-414) (His-Avi Tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CA9
Protein Characteristics:	AA 38-414
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA9 protein is labelled with His-Avi Tag.

## Product Details

Purpose:	Human CA9/Carbonic Anhydrase IX Protein
Sequence:	Gln38-Asp414
Characteristics:	Recombinant Human CA9/Carbonic Anhydrase IX Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln38-Asp414.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CA9, His Tag at 0.9µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC50 of 18.8ng/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	CA9
Alternative Name:	CA9 ( <a href="#">CA9 Products</a> )
Background:	CA9 is a member of the carbonic anhydrases' family, that is often expressed in cancer cells under hypoxic condition. CA9 expression potentially contributes to the regulation of cancer cell differentiation and mediates tumour-associated genes and signalling pathways, including apoptosis, hypoxia, G2M checkpoint, PI3K/AKR/mTOR signalling and TGF-beta signalling pathways.
Molecular Weight:	43.7 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">Q16790</a>

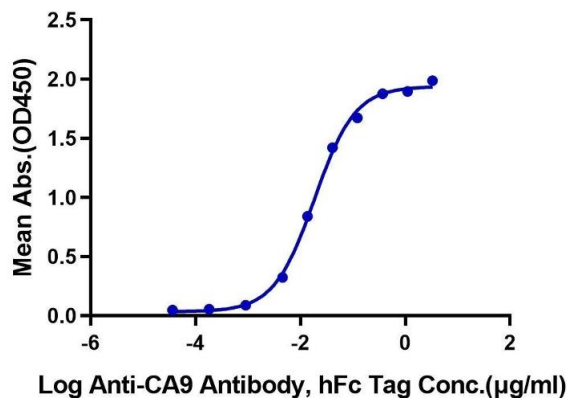
## Application Details

Restrictions:	For Research Use only
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## Handling

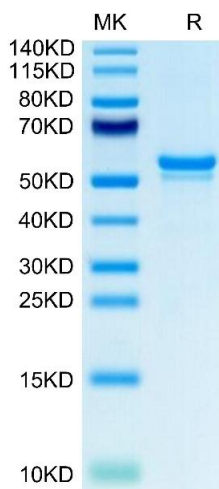
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 50 mM Tris, 150 mM NaCl ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

**Human CA9, His Tag ELISA**  
0.09µg Human CA9, His Tag Per Well



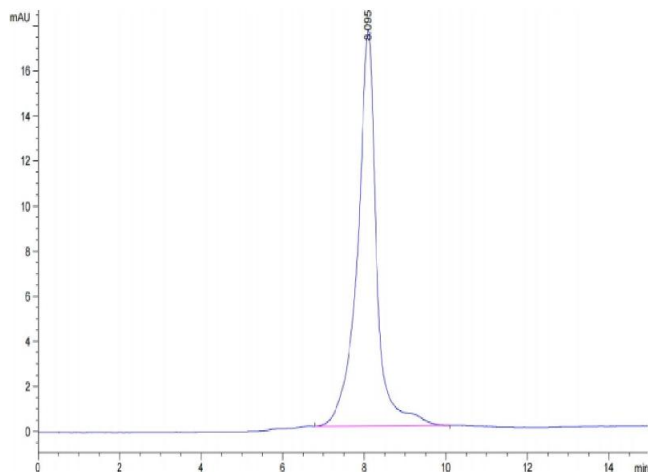
### ELISA

**Image 1.** Immobilized Human CA9, His Tag at 0.9 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC<sub>50</sub> of 18.8 ng/mL determined by ELISA.



### SDS-PAGE

**Image 2.** Human CA9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Human CA9 is greater than 95 % as determined by SEC-HPLC.