

Datasheet for ABIN7274013

CA9 Protein (AA 38-402) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CA9
Protein Characteristics:	AA 38-402
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA9 protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus CA9/Carbonic Anhydrase IX Protein
Sequence:	Gln38-Asp402
Characteristics:	Recombinant Cynomolgus CA9/Carbonic Anhydrase IX Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln38-Asp402.
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 Cynomolgus CA9, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC50 of 10.1ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CA9
Alternative Name:	CA9 (CA9 Products)
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:	41.03 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
UniProt:	A0A2K5VQG9

Application Details

Restrictions:	For Research Use only
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Handling

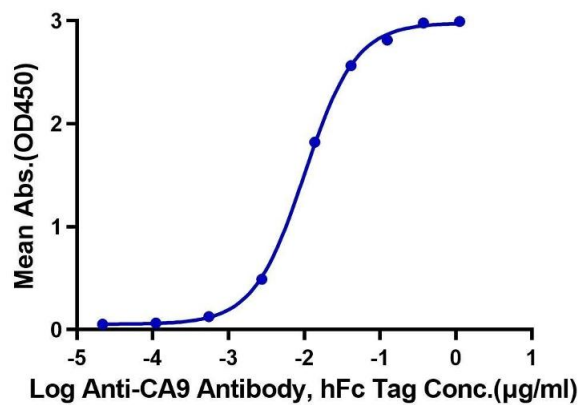
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant 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



SDS-PAGE

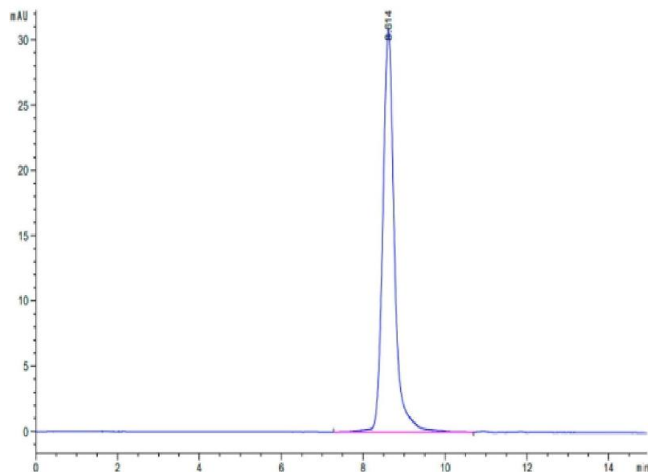
Image 1. Cynomolgus CA9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Cynomolgus CA9, His Tag ELISA
0.05µg Cynomolgus CA9, His Tag Per Well



ELISA

Image 2. Immobilized Cynomolgus CA9, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC50 of 10.1 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

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