

Datasheet for ABIN7194573

CA9 Protein (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	CA9
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA9 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Carbonic Anhydrase IX/CA9 Protein (His Tag)(Active)
Sequence:	Met 1-Asp 390
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CAR9 (NP_647466.2) (Met 1-Asp 390) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >100 pmoles/min/µg.

Target Details

Target:	CA9
Alternative Name:	Carbonic Anhydrase IX/CA9 (CA9 Products)

Target Details

Background:	<p>Background: 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. CA IX protein is expressed primarily in carcinoma cells lines, and the expression is cell density dependent and has been shown to be strongly induced by hypoxia, accordingly facilitates adaptation of tumor cells to hypoxic conditions. It is involved in tumorigenesis through many pathways, such as pH regulation and cell adhesion control. CA IX is used as a marker of tumor hypoxia and as a new therapeutic target for many human carcinomas and cancers.</p> <p>Immune Checkpoint Immunotherapy Cancer</p> <p>Immunotherapy Targeted Therapy</p> <p>Synonym: RP23-195K8.9, CAIX, Ca9, MN/CA9</p>
-------------	---

Molecular Weight:	40.3 kDa
-------------------	----------

NCBI Accession:	NP_647466
-----------------	---------------------------

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

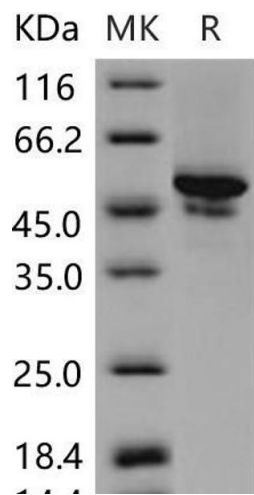
Format:	Lyophilized
---------	-------------

Reconstitution:	Please refer to the printed manual for detailed information.
-----------------	--

Buffer:	Lyophilized from sterile PBS, pH 7.4
---------	--------------------------------------

Storage:	4 °C, -20 °C, -80 °C
----------	----------------------

Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
------------------	--



Western Blotting

Image 1.