

## Datasheet for ABIN7519733

### CA9 Protein (His tag)



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#### Overview

Quantity:	20 µg
Target:	CA9
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA9 protein is labelled with His tag.

#### Product Details

Purpose:	Active Recombinant Mouse Carbonic Anhydrase IX/CA9 Protein
Sequence:	<p>QPQGLSGMQG EPSLGDSSSG EDELGVDVLP SEEDAPEEAD PPDGEDPPEV NSEDRMEESL</p> <p>GLEDLSTPEA PEHSQGSHGD EKGGGHSHWS YGGTLLWPQV SPACAGRFQS PVDIRLERTA</p> <p>FCRTLQPLEL LGYELQPLPE LSLSNNGHTV QLTLPPLGLKM ALGPGQEYRA LQLHLHWGTS</p> <p>DHPGSEHTVN GHRFPAEIHV VHLSTAFSEL HEALGRPGGL AVLAAFLQES PEENSAYEQL</p> <p>LSHLEEISSE GSKIEIPGLD VSALLPSDLS RYYRYEGSLT TPPCSQGVIV TVFNETVKLS</p> <p>AKQLHTLSVS LWGPRDSRLQ LNFRATQPLN GRTIEASFPA AEDSSPEPVH VNSCFTAGD</p>
Specificity:	Gln32-Asp390
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

## Target Details

Target:	CA9
Alternative Name:	Carbonic Anhydrase IX/CA9 ( <a href="#">CA9 Products</a> )
Background:	<p>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 (<math>\text{H}_2\text{O} + \text{CO}_2 = \text{H}^+ + \text{HCO}_3^-</math>) 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>Name: CAIX,CA9,CA-IX,G250,MN,P54,58N,pMW1,CA9</p>
Gene ID:	230099
UniProt:	<a href="#">Q8VHB5</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 $\mu\text{m}$ filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.