

Datasheet for ABIN7519732
CA9 Protein (His tag,AVI tag)



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Overview

Quantity:	100 µg
Target:	CA9
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA9 protein is labelled with His tag,AVI tag.

Product Details

Purpose:	Active Recombinant Human Carbonic anhydrase 9 Protein
Sequence:	QRLPRMQEDS PLGGGSSGED DPLGEEDLPS EEDSPREEDP PGEEDLPGEE DLPGEEDLPE VKPKSEEEGS LKLEDLPTVE APGDPQEPQN NAHRDKEGDD QSHWRYGGDP PWPRVSPACA GRFQSPVDIR PQLAAFCPAL RPLELLGFQL PPLPELRLRN NGHSVQLTLP PGLEMALGPG REYRALQLHL HWGAAGRPGS EHTVEGHRFP AEIHVVHLST AFARVDEALG RPPGLAVLAA FLEEGPEENS AYEQLLSRLE EIAEEGSETQ VPGLDISALL PSDFSRYPQY EGSLTTPPCA QGVIWTVFNQ TVMLSAKQLH TLSDTLWGP GDSRLQLNFRA TQPLNGRVIE ASFPAGVDSS PRAAEPVQLN SCLAAGD
Specificity:	Gln38-Asp414
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >84 pmoles/min/µg, as measured with

Product Details

1 mM 4-Nitrophenyl acetate and 1 µg enzyme at 400 nm in 100 µL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Target Details

Target:	CA9
Alternative Name:	Carbonic anhydrase 9 (CA9 Products)
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 ($H_2O + CO_2 = H^+ + HCO_3^-$) 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>Name: CA9,CAIX,MN, MN</p>
Gene ID:	768
UniProt:	Q16790

Application Details

Restrictions: For Research Use only

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 µm 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 long term. After reconstitution, the protein

solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.