

Carbonic Anhydrase 9 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700882
Synonyms:	CA9; CAIX; CA-IX; EC 4.2.1.1; G250; MN; P54/58N; PMW1; RCC
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5VQG9 (Q38-D402)
Gene ID:	/
Molecular Weight:	50-60 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus CA9, His Tag at 0.5 µg/mL (100µl/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC ₅₀ of <10.1 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Carbonic Anhydrase 9 Protein is an enzyme that facilitates the reversible hydration of carbon dioxide. It plays a crucial role in converting carbon dioxide to bicarbonate ions and protons, as well as their reverse reaction. This enzymatic activity is essential for various physiological processes such as acid-base balance regulation, respiration, and maintenance of cellular pH homeostasis. Carbonic Anhydrase 9 Protein is vital in the transport and metabolism of carbon dioxide within the body, contributing to the overall regulation of carbon dioxide levels.
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Caution: Product has not been fully validated for medical applications. For research use only.

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