

PRODUCT INFORMATION

CA9 **Target**

Synonyms CAIX;MN

Recombinant Human CA9 Protein with C-terminal **Description**

6×His tag

Delivery In Stock **Uniprot ID** Q16790 **Expression Host HEK293**

C-6×His Tag Tag

Molecular Characterization

CA9(Gln38-Asp414) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight**

41.5 kDa after removal of the signal peptide. The apparent molecular mass of CA9-His is

approximately 35-55 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a

variety of biological processes, including respiration, calcification, acid-base balance, bone

resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and

in their subcellular localization. CA IX is a **Background**

transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12.

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Usage Research use only

Conjugate Unconjugated

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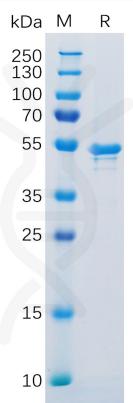


Figure 1. Human CA9 Protein, His Tag on SDS-PAGE under reducing condition.

Human CA9, His Tagged protein ELISA

0.2 µg of Human CA9, His Tagged protein per well

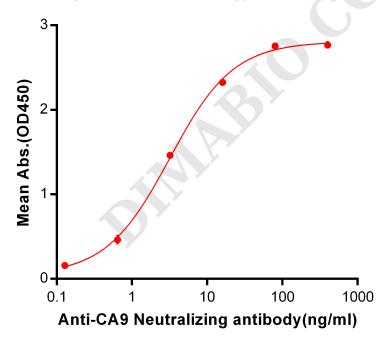


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human CA9, His tagged protein (PME100152) can bind Anti-CA9 Neutralizing antibody BME100040 in a linear range of 0.128-80 ng/ml.



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