PRODUCT INFORMATION

Target	CA9
Synonyms	CAIX;MN
Description	Recombinant Human CA9 Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	Q16790
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	CA9(Gln38-Asp414) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 41.5 kDa after removal of the signal peptide.The apparent molecular mass of CA9-His is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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 at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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 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.
Usage	Research use only
Conjugate	Unconjugated

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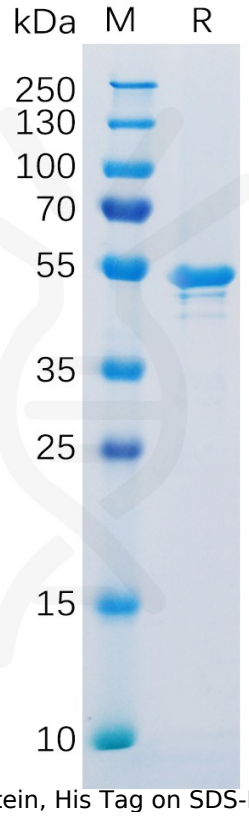


Figure 1. Human CA9 Protein, His Tag on SDS-PAGE under reducing condition.

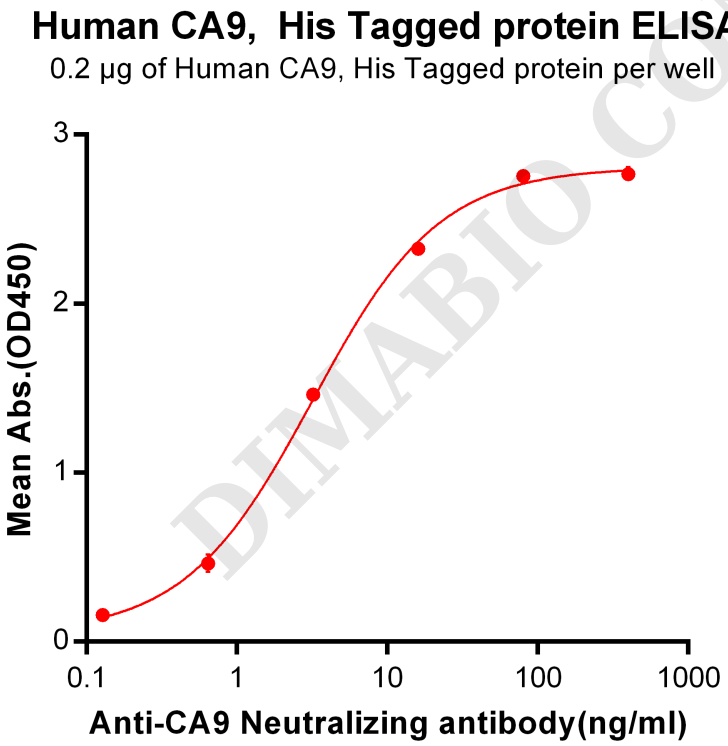


Figure 2. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human CA9, His tagged protein (PME100152) can bind Anti-CA9 Neutralizing antibody BME100040 in a linear range of 0.128-80 ng/ml.

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