PRODUCT INFORMATION

Target	CA12
Synonyms	CA-XII
Description	Recombinant human CA12 protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	O43570
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	CA12(Ala25-Ser301) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 57.3 kDa after removal of the signal peptide. The apparent molecular mass of CA12-hFc is approximately 55-70 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. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2014]
Usage	Research use only
Conjugate	Unconjugated

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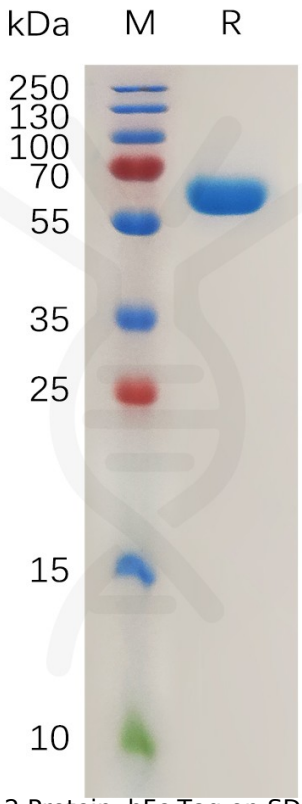


Figure 1. Human CA12 Protein, hFc Tag on SDS-PAGE under reducing condition.

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