

## **PRODUCT INFORMATION**

CA12 **Target** CA-XII **Synonyms** 

Recombinant human CA12 protein with C-**Description** 

terminal human Fc tag

**Delivery** In Stock **Uniprot ID** O43570 **Expression Host HEK293** 

Tag C-Human Fc Tag

Molecular

**Background** 

CA12(Ala25-Ser301) hFc(Glu99-Ala330) Characterization

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 **Molecular Weight** 

approximately 55-70 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 % Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis 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. 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

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gene. [provided by RefSeq, Jun 2014]

**Usage** Research use only

Conjugate Unconjugated





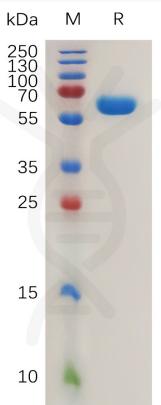


Figure 1. Human CA12 Protein, hFc Tag on SDS-PAGE under reducing condition.

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