Human CA12 Protein, His Tag Cat. No. PME101501



## **PRODUCT INFORMATION**

| Target                          | CA12   |
|---------------------------------|--|
| Synonyms                        | CAXII; CA-XII; T18816; HsT18816  |
| Description                     | Recombinant human CA12 Protein with C-terminal<br>10×His tag   |
| Delivery                        | In Stock   |
| Uniprot ID                      | 043570   |
| <b>Expression Host</b>          | HEK293   |
| Tag                             | C-10×His tag   |
| Molecular<br>Characterization   | CA12(Ala25-Ser301) 10×His tag  |
| Molecular Weight                | The protein has a predicted molecular mass of<br>32.5 kDa after removal of the signal peptide. The<br>apparent molecular mass of CA12-His is<br>approximately 25-55 kDa due to glycosylation.  |
| Purity                          | The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.   |
| Formulation &<br>Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5 %<br>– 8% trehalose is added as protectants before<br>lyophilization. Please see Certificate of Analysis<br>for specific instructions of reconstitution.  |
| Storage & Shipping              | Store at -20°C to -80°C for 12 months in<br>lyophilized form. After reconstitution, if not<br>intended for use within a month, aliquot and store<br>at -80°C (Avoid repeated freezing and thawing).<br>Lyophilized proteins are shipped at ambient<br>temperature.   |
| Background                      | Carbonic anhydrases (CAs) are a large family of<br>zinc metalloenzymes that catalyze the reversible<br>hydration of carbon dioxide. They participate in a<br>variety of biological processes, including<br>respiration, calcification, acid-base balance, bone<br>resorption, and the formation of aqueous humor,<br>cerebrospinal fluid, saliva, and gastric acid. This<br>gene product is a type I membrane protein that is<br>highly expressed in normal tissues, such as<br>kidney, colon and pancreas, and has been found<br>to be overexpressed in 10% of clear cell renal<br>carcinomas. Three transcript variants encoding<br>different isoforms have been identified for this<br>gene. [provided by RefSeq, Jun 2014] |
| Usage                           | Research use only  |
| Conjugate                       | Unconjugated   |
|                                 |  |

Email: info@dimabio.com Website: www.dimabio.com



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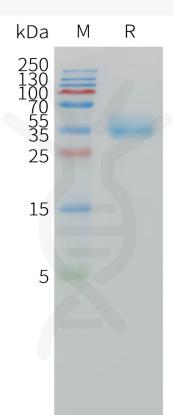


Figure 1. Human CA12 Protein, His Tag on SDS-PAGE under reducing condition.

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)

Email: info@dimabio.com Website: www.dimabio.com

