

# Recombinant Human carbonic anhydrase XII Protein, Tag Free

**Cat. No.** CA12-122H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant human Carbonic Anhydrase XII/CA12 protein (O43570) (Ala 25-Gln 291) without tag was expressed in HEK293.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | 25-291aa   |
| <b>Description</b>      | 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. |
| <b>Tag</b>              | Non  |
| <b>Molecular Mass</b>   | 30.6 kDa   |
| <b>Endotoxin</b>        | Less than 1.0 EU/μg by the LAL method.   |
| <b>Purity</b>           | >95% as determined by SDS-PAGE.  |

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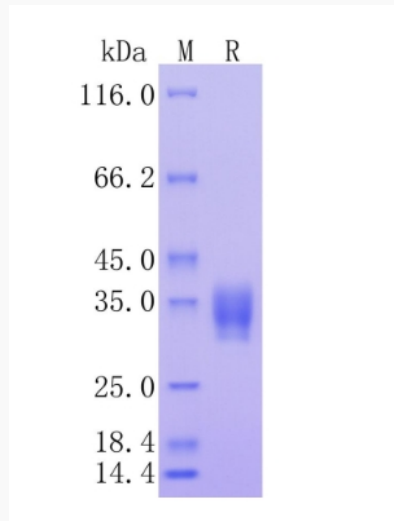
|                         |   |
|-------------------------|---|
| <b>Storage</b>          | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| <b>Storage Buffer</b>   | Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.   |
| <b>Reconstitution</b>   | Reconstitute at 250 µg/mL in sterile water.   |
| <b>GENE INFORMATION</b> |   |
| <b>Gene Name</b>        | CA12 carbonic anhydrase XII [ Homo sapiens (human) ]  |
| <b>Official Symbol</b>  | CA12  |
| <b>Synonyms</b>         | CA12; carbonic anhydrase XII; carbonic anhydrase 12; HsT18816; CA-XII; carbonic dehydratase; carbonate dehydratase XII; tumor antigen HOM-RCC-3.1.3; CAXII; FLJ20151;   |
| <b>Gene ID</b>          | 771   |
| <b>mRNA Refseq</b>      | NM_001218   |
| <b>Protein Refseq</b>   | NP_001209   |
| <b>MIM</b>              | 603263  |
| <b>UniProt ID</b>       | O43570  |

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**Protein on SDS-  
PAGE under  
reducing (R)  
condition.**



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