

Recombinant Human CA12 protein, His-tagged

Cat. No. CA12-7846H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA12 aa. (Ala25~Leu302 (Accession # O43570)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala25~Leu302
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.8kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.05% sarcosyl and preservative.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CA12 carbonic anhydrase 12 [Homo sapiens (human)]
Official Symbol	CA12
Synonyms	CA12; carbonic anhydrase 12; CAXII; CA-XII; T18816; HsT18816; carbonate dehydratase XII; carbonic anhydrase XII; carbonic dehydratase; tumor antigen HOM-RCC-3.1.3
Gene ID	771

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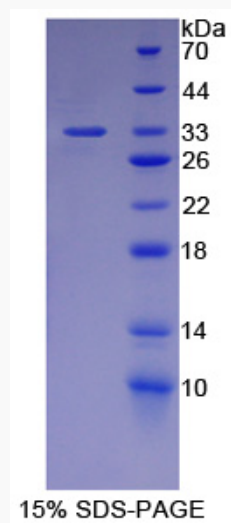
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mRNA Refseq NM_001218.4

Protein Refseq NP_001209.1

UniProt ID O43570

SDS-PAGE



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