

# Recombinant Human CA12 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CA12-3407H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CA12 MS Standard C13 and N15-labeled recombinant protein (NP_001209) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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>Molecular Mass</b>   | 39.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MPRRSLHAAVLLLVLKEQPSSPAPVNGSKWTFYFGPDGENSWSKKYPSCGGLLQS<br>PIDLHSDILQYDASLTPLFQGYNLSANKQFLLTNNGHSVKLNLPSDMHIQGLQSRYS<br>ATQLHLHWGNPNDPHGSEHTVSGQHFAAELHIVHYNLDLPDASTASNKSEGLAVL<br>AVLIEMGSFNPSYDKIFSHLQHVKYKGQEA FVPGFNIEELLPERTAEYYRYRGSLLTP<br>PCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKFDERL                                                                                                                                                                                                                                                                                                                                               |

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VYTSFSQVQVCTAAGLSLGIILSLALAGILGICIVVVSIWLFRRKSIKKGDNKGVIYKP  
ATKMETEAHATRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** CA12 carbonic anhydrase XII [ Homo sapiens (human) ]

**Official Symbol** CA12

**Synonyms** CA12; carbonic anhydrase XII; carbonic anhydrase 12; HsT18816; CA-XII; carbonic dehydratase; carbonate dehydratase XII; tumor antigen HOM-RCC-3.1.3; CAXII; FLJ20151;

**Gene ID** 771

**mRNA Refseq** NM\_001218

**Protein Refseq** NP\_001209

**MIM** 603263

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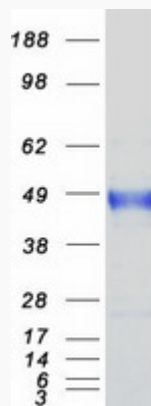
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UniProt ID

O43570

SDS-PAGE

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