

Recombinant Full Length Human CA12 Protein, GST-tagged

Cat. No. CA12-2733HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA12 full-length ORF (NP_001209.1, 1 a.a. - 354 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	354 amino acids
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. [provided by RefSeq, Jun 2014]
Molecular Mass	65.9 kDa
AA Sequence	MPRRSLHAAAVLLLVLKEQPSSPAPVNGSKWTYFGPDGENSWSKKYPSCGGLLQS PIDLHSDILQYDASLTPLEFQGYNLSANKQFLLTNNHGSVKLNLPSDMHIQGLQSRYS ATQLHLHWGNPNDPHGSEHTVSGQHFAAELHIVHYNSDLYPDASTASNKSEGLAVL AVLIEMGSFNPSYDKIFSHLQHVKYKGQEA FVPGFNIEELLPERTAEYYRYRGSLLTP PCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKFDERL

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VYTSFSQVQVCTAAGLSLGIILSLALAGILGICIVVVVSIWLFRRKSIKKGDNKGVIYKP
ATKMETEAHA

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CA12 carbonic anhydrase XII [Homo sapiens]
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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UniProt ID

O43570

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