

Recombinant Full Length Human CA12 Protein, C-Flag-tagged

Cat. No. CA12-2169HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CA12 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	36.8 kDa
AA Sequence	MPRRSLHAAVLLLVLKEQPSSPAPVNGSKWTFYFGPDGENSWSKKYPSCGGLLQS PIDLHSDILQYDAS LTPLEFQGYNLSANKQFLLTNNGHSVKLNLPSDMHIQGLQSRYS SATQLHLHWGNPNDPHGSEHTVSGQHF AAELHIVHYNSDLYPDASTASNKSEGLA VLAVLIEMGSFNPSYDKIFSHLQHVKYKGQEA FVPGFNIEEL LPERTAEYYRYRGSL TTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKF D

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	ERLVYTSFSQVQVCTAAGLSLGIILSLALAGILGICIVVVVSIWLFRRKSIKKGDNKGVIIY KPKTKMET EAHA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Nitrogen metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	CA12 carbonic anhydrase 12 [Homo sapiens (human)]
Official Symbol	CA12
Synonyms	CAXII; CA-XII; T18816; HsT18816
Gene ID	771

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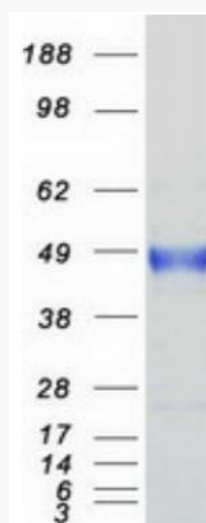
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mRNA Refseq [NM_001218.5](#)

Protein Refseq [NP_001209.1](#)

MIM [603263](#)

UniProt ID [O43570](#)



Coomassie blue staining of purified CA12 protein.

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