

## Product datasheet for PH304810

### CA12 (NM\_001218) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CA12 MS Standard C13 and N15-labeled recombinant protein (NP_001209)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204810
Predicted MW:	39.5 kDa
Protein Sequence:	>RC204810 protein sequence Red=Cloning site Green=Tags(s)  MPRRSLHAAAVLLLVLKEQPSSPAPVNGSKWTFGPDGENSWSKKYPSCGGLLQSPIDLHSDILQYDAS LTPLEFQGYNLSANKQFLLTNNHGSVKLNLPSPDMHIQGLQSRYSATQLHLHWGNPNDPHGSEHTVSGQHF AAELHIVHYNSDLYPDASTASNKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVKYKGQAEFVPGFNIEEL LPERTAEEYRYRGSLLTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINFRQVQKF DERLVYTSFSQVQVCTAAGLSLGIILSLALAGILGICIVVVVSIWLFRRKSIKKGDNKGVYKPKATKMET EAHA  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001209</u>
RefSeq Size:	4209
RefSeq ORF:	1062
Synonyms:	CA-XII; CAXII; HsT18816; T18816
Locus ID:	771



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UniProt ID: [O43570](#)

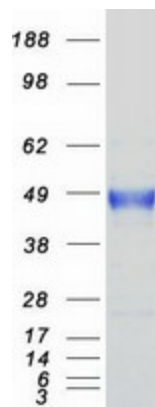
Cytogenetics: 15q22.2

**Summary:** 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]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Nitrogen metabolism

### Product images:



Coomassie blue staining of purified CA12 protein (Cat# [TP304810]). The protein was produced from HEK293T cells transfected with CA12 cDNA clone (Cat# [RC204810]) using MegaTran 2.0 (Cat# [TT210002]).