

## Product datasheet for **TP304810L**

### CA12 (NM\_001218) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carbonic anhydrase XII (CA12), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204810 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MPRRSLHAAAVLLLVLKEQPSSPAPVNGSKWTFGPDGENSWSKYPSCGGLLQSPIDLHSDILQYDAS LTPLEFQGYNLSANKQFLLTNNHGSVKLNLPSDMHIQGLQSRYSATQLHLHWGNPNDPHGSEHTVSGQ HF AAELHIVHYNSDLYPDASTASNKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVYKKGQEA FVPGFNIEEL LPERTA EYRYRGS LTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKF DERLVYTSFSQVQVCTAAGLSLGIILSLALAGILGICIVVVS IWLFRKSIKKGDNKGVIYKPATKMET EAHA</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	36.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001209</u>



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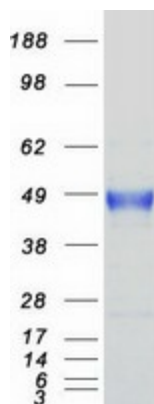
**Locus ID:** 771  
**UniProt ID:** [O43570](#)  
**RefSeq Size:** 4209  
**Cytogenetics:** 15q22.2  
**RefSeq ORF:** 1062  
**Synonyms:** CA-XII; CAXII; HsT18816; T18816

**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]).