



Recombinant Human Carbonic anhydrase 12 (CA12), partial

Product Code	CSB-BP004367HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O43570
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	APVNGSKWTFYFGPDGENSWSKKYPSCGGLLQSPIDLHSDILQYDASLTPLFQ GYNLSANKQFLLTNGHSVKLNLPSDMHIQGLQSRYSATQLHLHWGNPNDPH GSEHTVSGQHFAAELHIVHYNSDLYPDASTASNKSEGLAVLAVLIEMGSFNPS YDKIFSHLQHVKYKGQEA FVPGFNIEELLPERTAEYYRYRGLTTPPCNPTVL WTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKFDERLVYTS FSQVQVCTAAGLS
Research Area	Cancer
Source	Baculovirus
Target Names	CA12
Protein Names	Recommended name: Carbonic anhydrase 12 EC= 4.2.1.1 Alternative name(s): Carbonate dehydratase XII Carbonic anhydrase XII Short name= CA-XII Tumor antigen HOM-RCC-3.1.3
Expression Region	25-301aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial
Target Details	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. Two transcript variants encoding different isoforms have been identified for this gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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