



# Recombinant Human Carbonic anhydrase-related protein 11 (CA11)

<b>Product Code</b>	CSB-EP004366HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O75493
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	HIGPAPD PEDWWSYKDN LQGNFVPGPP FWGLVNAAWS LCAVGKRQSP VDVELKRVLY DPFLPPLRLS TGGEKLRGTL YNTGRHVSFL PAPRPVVNVS GGPLLYSHRL SELRLLFGAR DGAGSEHQIN HQGFSAEVQL IHFNQELYGN FSAASRGPNG LAILSLFVNV ASTSNPFLSR LLNRDTITRI SYKNDAYFLQ DLSLELLFPE SFGFITYQGS LSTPPCSETV TWILIDRALN ITSLQMHSR LLSQNPPSQI FQSLSGNSRP LQPLAHRALR GNRDPRHPER RCRGPNYRLH VDGVPHGR
<b>Source</b>	E.coli
<b>Target Names</b>	CA11
<b>Protein Names</b>	Recommended name: Carbonic anhydrase-related protein 11 Alternative name(s): CA-RP XI Short name= CA-XI Short name= CARP XI Carbonic anhydrase-related protein 2 Short name= CA-RP II Short name= CARP-2
<b>Expression Region</b>	24-328
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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. They show extensive diversity in tissue distribution and in their subcellular localization. CA XI is likely a secreted protein, however, radical changes at active site residues completely conserved in CA isozymes with catalytic activity, make it unlikely that it has carbonic anhydrase activity. It shares properties in common with two other acatalytic CA isoforms, CA VIII and CA X. CA XI is most abundantly expressed in brain, and may play a general role in the central nervous system.
<b>Reconstitution</b>	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**

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.