

## Recombinant Human CA14 Protein, His-tagged

**Cat. No.** CA14-118H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CA14 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	337
<b>Description</b>	<p>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.</p> <p>They show extensive diversity in tissue distribution and in their subcellular localization. CA XIV is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	31.6 kDa
<b>AA Sequence</b>	<p>MLFSALLLEVIWILAADGGQHWTYEGPHGQDHWPA SYPECGNNAQSPIDIQTDSVT            FDPDLPALQPHGYDQPGTEPLDLHNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHW            GQKGSPPGGSEHQINSEATFAELHIVHYDSDSYDSLSEAAERPQGLAVLGILIEVGETK</p>

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NIAYEHILSHLHEVRHKDQKTSVPPFNLRELLPKQLGQYFRYNGSLTTPPCYQSVLW  
TVFYRRSQISMEQLEKLGQTLFSTEEEPSKLLVQNYRALQPLNQRMFASFIQAGSS  
YTTGEMLSLGVGILVGCLCLLLAVYFIARKIRKKRLENRKS SVVFTSAQATTEA

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** CA14 carbonic anhydrase XIV [ Homo sapiens (human) ]

**Official Symbol** CA14

**Synonyms** CA14; carbonic anhydrase XIV; carbonic anhydrase 14; CA-XIV; carbonic dehydratase; carbonate dehydratase XIV; CAXiV;

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Gene ID	23632
mRNA Refseq	NM_012113
Protein Refseq	NP_036245
MIM	604832
UniProt ID	Q9ULX7

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