

Product datasheet for PH306503

Carbonic Anhydrase XIV (CA14) (NM_012113) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CA14 MS Standard C13 and N15-labeled recombinant protein (NP_036245)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206503
Predicted MW:	37.7 kDa
Protein Sequence:	>RC206503 protein sequence Red=Cloning site Green=Tags(s) MLFSALLLEVIWILAADGGQHWTYEGPHGQDHPASYPECGNNAQSPIDIQTDSVTFDPLPALQPHGYD QPGTEPLDLHNNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHWGQKSPGGSEHQINSEATFAELHIVHYD SDSYDSLSEAERPQGLAVLGILIEVGETKNIAIEHILSHLHEVRHKDQKTSVPPFNLRELLPKQLGQYF RYNGSLTPPCYQSVLWTVFYRRSQISMEQLEKLQGTLFSTEEEPSKLLVQNYRALQPLNQRMVFAFIIQ AGSSYTTGEMLSLGVGILVGCLCLLLAVYFIARKIRKKRLENRKSVVFTSAQATTEA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_036245
RefSeq Size:	1757
RefSeq ORF:	1011
Synonyms:	CAXiV
Locus ID:	23632



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UniProt ID: [Q9ULX7](#), [A8K3J4](#)

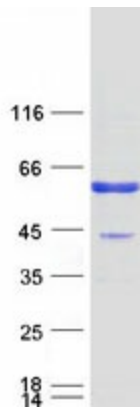
Cytogenetics: 1q21.2

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. 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA14 protein (Cat# [TP306503]). The protein was produced from HEK293T cells transfected with CA14 cDNA clone (Cat# [RC206503]) using MegaTran 2.0 (Cat# [TT210002]).