

Product datasheet for PH304839

Carbonic Anhydrase IX (CA9) (NM_001216) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CA9 MS Standard C13 and N15-labeled recombinant protein (NP_001207)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204839
Predicted MW:	49.7 kDa
Protein Sequence:	>RC204839 protein sequence Red=Cloning site Green=Tags(s)
	MAPLCPSPWLPLLIPAPAPGLTVQLLL SLLLLMPVHPQRLPRMQEDSPLGGSSGEDDPLGEEDLPSEED SPREEDPPGEEDLPGEEDLPGEEDLPEVKPKSEEEGSLKLEDLPTVEAPGDPQEPQNNNAHRDKEGDDQSH WRYGGDPPWPRVSPACAGRFQSPVDIRPQLAAFCPALRPLELLGFQLPPLPELRLRNNGHSVQLTLPPGL EMALGPGREYRALQLHLHWGAAGRPGSEHTVEGHRFAEIHVVHLSTAFARVDEALGRPGGLAVLAAFL EGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSDFSRYFYEGSLTTPPCAQGV IWTVFNQTM LSAKQLHTLSDTLWPGDSRLQLNFRATQPLNGRVIEASFPAGVDSSPRAAEPVQLNSCLAAGDILALVF GLLFAVTSVAFLVQMRQRHRRGKGGVSYRPAEVAETGA
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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:	<u>NP_001207</u>
RefSeq Size:	1561
RefSeq ORF:	1377
Synonyms:	CAIX; MN



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Locus ID: 768

UniProt ID: [Q16790](#), [A0A0S2Z3D0](#)

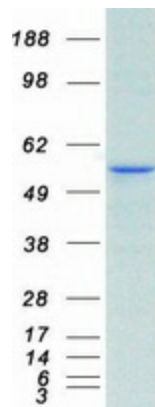
Cytogenetics: 9p13.3

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 IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq, Jun 2014]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA9 protein (Cat# [TP304839]). The protein was produced from HEK293T cells transfected with CA9 cDNA clone (Cat# [RC204839]) using MegaTran 2.0 (Cat# [TT210002]).