

## Product datasheet for **TP304839M**

### Carbonic Anhydrase IX (CA9) (NM\_001216) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human carbonic anhydrase IX (CA9), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC204839 protein sequence  
Red=Cloning site Green=Tags(s)

MAPLCPSPWLPLLIPAPAPGLTVQLLSLLLLMPVHPQRLPRMQEDSPLGGGSSGEDDPLGEEDLPSEED  
SPREEDPPGEEDLPGEEDLPGEEDLPGEEDLPVKKPKSEEEGSLKLEDLPTVEAPGDPQEPQNNNAHRDKEGDDQSH  
WRYGGDPPWPRVSPACAGRFQSPVDIRPQLAAFCPALRPLELLGFQLPPLPELRLRNNGHSVQLTLPPLG  
EMALGPGREYRALQLHLHWGAAGRPGSEHTVEGHRFPAEIHVVHLSTAFARVDEALGRPGGLAVLAAFL  
EGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSDFSRYFYEGSLTPPCAQGVIVTFVFNQTV  
LSAKQLHTLSDTLWGP GDSRLQLNFRATQPLNGRVIEASFPAGVDSSPRAAEPVQLNSCLAAGDILALVF  
GLLFAVTSVAFLVQMRRQHRRGTKGGVSYRPAEVAETGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 45.8 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001207](#)



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Locus ID: 768

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

RefSeq Size: 1561

Cytogenetics: 9p13.3

RefSeq ORF: 1377

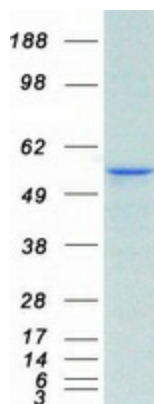
Synonyms: CAIX; MN

**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]).