

Product Information

MemDX™ Membrane Protein Human CA9 (Ribonuclease A family member 1, pancreatic) for Antibody Discovery

Cat. No.: **MP0893J**

This product is for research use only and is not intended for diagnostic use.

This product is a 45.8 kDa Human CA9 membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CA9

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

45.8 kDa

TMD

1

Sequence

MAPLCSPWLP LLIPAPAPGLTVQLLLSLLLLMPVHPQRLPRMQEDSPLGGGSSGEDDPLGEEDLPSEED
SPREEDPPGEEDLPGEEDLPGEEDLPEVKPKSEEEGSLKLEDLPTVEAPGDPQEPQNNNAHRDKEGDDQSH
WRYGGDPPWPRVSPACAGRFQSPVDIRPQLAAFCPALRPLELLGFQLPPLPELRLRNNGHSVQLTLPPGL
EMALGPGREYRALQLHLHWGAAGRPGSEHTVEGHRFP AEIHVVHLSTAFARVDEALGRPGGLAVLA AFLE
EGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSDFSRYFQYEGSLTTPPCAQGVIVTVFNQTVM
LSAKQLHTLSDTLWGPGDSRLQLNFRATQPLNGRVIEASFPAGVDSSPRAAEPVQLNSCLAAGDILALVF
GLLFAVTSVAFLVQMRRQHRRGTKGGVSYRPAEVAETGA

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

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

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

CA9

Full Name

Ribonuclease A family member 1, pancreatic

Introduction

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.

Alternative Names

MN; CAIX

Gene ID

[768](#)

UniProt ID

[Q16790](#)