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Product Information

MemDX™ Membrane Protein Human CA9 (Carbonic anhydrase 9) Expressed in NS0 for Antibody Discovery, Partial (59-414aa)

Cat. No.: **MPX0299K**
This product is for research use only and is not intended for diagnostic use.

This product is a 42 kDa Human CA9 membrane protein expressed in NS0. 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
Partial (59-414aa)

Protein Class
Receptor

Molecular Weight
42 kDa

TMD
1

Sequence
PLGEEDLPSEEDSPREEDPPGEEDLPGEEDLPGEEDLPEVKP
KSEEEGSLKLEDLPTVEAPGDPQEPQNNAHRDKEGDDQSHWRYGGDPPWP
RVSPACAGRFQSPVDIRPQLAAFCPALRPLELLGFQLPPLPELRLRNNGH
SVQLTLPPGLEMALGPGREYRALQLHLHWGAAGRPGSEHTVEGHRFPAEI
HVVHLSTAFARVDEALGRPGGLAVLAAFLEEGPEENSAYEQLLSRLEEIA
EEGSETQVPGLDISALLPSDFSRYFQYEGSLTTPPCAQGVIWTVFNQTVM
LSAKQLHTLSDTLWGPGDSRLQLNFRATQPLNGRVIEASFPAGVDSSPRA
AEPVQLNSCLAAGD

Product Description

Expression Systems
NS0

Tag

10xHis tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Reconstitute at 100 μg/mL in sterile 25 mM Tris and 150 mM NaCl, pH 7.5.

Endotoxin

<1.0 EU per 1 μg of the protein by the LAL method.

Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Buffer

Lyophilized from a 0.2 μm filtered solution in Tris and NaCl.

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CA9

Full Name

Carbonic anhydrase 9

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

CA9; MN; CAIX; CA-IX; P54/58N; RCC-associated antigen G250; RCC-associated protein G250; carbonate dehydratase IX; carbonic anhydrase IX; carbonic dehydratase; membrane antigen MN; pMW1; renal cell carcinoma-associated antigen G250; Carbonic anhydrase 9

Gene ID

768

UniProt ID

Q16790