

Product Information

MemDX™ Membrane Protein Human CA12 (Carbonic anhydrase 12) Full Length

Cat. No.: **MPC2491K**

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

This product is a made-to-order Human CA12 membrane protein expressed in HEK293. 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

CA12

Protein Length

Full length

Protein Class

Receptor

TMD

1

Sequence

MPRRSLHAAAVLLLVLKEQPSSPAPVNGSKWTFGPDGENSWSKKYPSC
GGLLQSPIDLHSDILQYDASLTPLFQGYNLSANKQFLLTNNGHHSVKNL
PSDMHIQGLQSRYSATQLHLHWGNPNDPHGSEHTVSGQHFAAELHIVHYN
SDLYPDASTASNKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVKYKGQEA
FVPGFNIEELLPERTAEYYRYRGSLLTPPCNPTVLWTVFRNPVQISQEQL
LALETALYCTHMDPSPREMINNFRQVQKFDERLVYTSFSQVQVCTAAGL
SLGIILSLALAGILGICIVVVSIWLFRRKSIKKGDNKGVIYKPATKMET
EAHA

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

CA12

Full Name

Carbonic anhydrase 12

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. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene.

Alternative Names

CA12; CAXII; CA-XII; T18816; HsT18816; carbonate dehydratase XII; carbonic anhydrase XII; carbonic dehydratase; tumor antigen HOM-RCC-3.1.3; Carbonic anhydrase 12

Gene ID

[771](#)

UniProt ID

[O43570](#)