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Product Information

MemDX™ Antibody Discovery - Human ACE2 / ACEH (18-740) Membrane Protein, Partial, His- tag

Cat. No.: **MP0888F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human ACE2 / ACEH (18-740). It has been tested in SDS-PAGE, SEC-SEC-MALS, ELISA, BLI, SPR. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
ACE2 / ACEH

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 85.5 kDa. The protein migrates as 100-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Gln 18 - Ser 740 (Accession # Q9BYF1-1).

Product Description

Activity
Yes

Application
SDS-PAGE, SEC-SEC-MALS, ELISA, BLI, SPR

Expression Systems
HEK293

Tag
His tag at the N-terminus

Protein Format
Soluble

Form

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LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Delivered as bulk protein in a 0.2 μm filtered solution of 50 mM Tris, 150 mM NaCl, Arginine, pH7.5 with glycerol as protectant.

Storage

The product MUST be stored at -70°C or lower upon receipt; -70°C for 3 months under sterile conditions.

Target

Target Protein

ACE2 / ACEH

Full Name

angiotensin I converting enzyme 2

Introduction

The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. ACE2 is known to be expressed in various human organs, and its organ- and cell-specific expression suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2, the causative agent of coronavirus disease-2019 (COVID-19).

Alternative Names

ACE2, angiotensin I converting enzyme (peptidyl-dipeptidase A) 2, angiotensin-converting enzyme 2, metalloprotease MPROT15, ACE-related carboxypeptidase, angiotensin I converting enzyme 2, angiotensin-converting enzyme homolog, ACEH,

Gene ID

59272

UniProt ID

Q9BYF1

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