

Human ACE2 Overexpression 293T Stable Cell Line

Catalog No.: RM02456 **1 Publications**

Basic Information

Catalog No.

RM02456

Category

Cell Lysate

Parental Cell line

HEK293T

Genotype

Cryopreservation

Medium:DMEM+40%(v/v) FBS and 10%
(v/v) DMSO

Gene Information

Gene Symbol

ACE2

Species

Human

Gene ID

59272

Swiss Prot

Q9BYF1

Synonyms

ACEH

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Background

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. The organ- and cell-specific expression of this gene 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 coronaviruses SARS and HCoV-NL63. [provided by RefSeq, Jul 2008]

Product Information

Description

Human ACE2 Overexpression 293T stable cell line is engineered from 293T cell line with Lentivirus packaging technology.

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging

1 vial parental cell line and 1 vial ACE2 Overexpression cell line

Shipping Conditions

Dry ice

Amount1~5×10⁶ cells/vial**Storage**

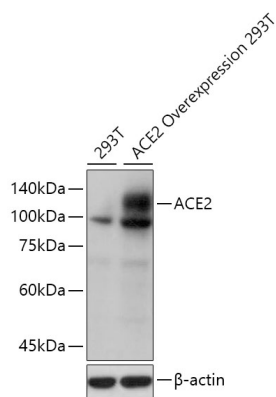
Stored in liquid nitrogen for a long time less than -130°C.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

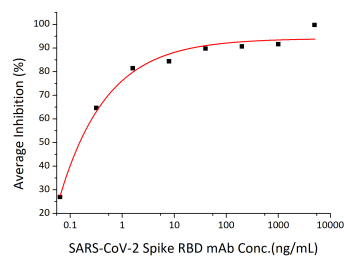
1. Thaw the vial in 37°C water bath, and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

WB data



Western blot analysis of extracts from 293T and Human ACE2 Overexpression 293T Stable cells, using ACE2 antibody (A12737) at 1:1000 dilution.

Sequencing data



The virus microneutralization test was performed on Human ACE2 Overexpression 293T Stable cells infected with SARS-CoV-2 Spike Pseudovirus under treatment of serial dilutions of neutralizing antibody. The IC₅₀ is typically 0.171 ng/mL.