Leader in Biomolecular Solutions for Life Science

www.abclonal.com

ACE2 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02231

Basic Information

Catalog No.
RM02231

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
ACE2

Species
Human

Gene ID
59272

Swiss Prot
Q9BYF1

Synonyms
ACEH

Product Information

Description
ACE2 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon3 was deleted
Allele-2:exon3 was deleted
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 knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ 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℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Contact

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

Sequencing data

WT TACTTTGTGCTAGT**********GGTTTATTTTCTCT
Mut TACTTTGTGCTAGT***Deletion***GGTTTATTTTCTCT
Allele-1: exon3 was deleted

WT TACTTTGTGCTAGT**********GGTTTATTTTCTCT
Mut TACTTTGTGCTAGT***Deletion***GGTTTATTTTCTCT
Allele-2: exon3 was deleted

Genome sequence analysis of PCR products from parental (WT) and ACE2 knockout (KO) 293T cells, using sanger sequencing.