

Human ACE2 Overexpression 293T Stable Cell Line

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Catalog No.	RM02456	Category	Cell Line
Description	Human ACE2 Overexpressiom 293T st technology.	able cell line is engineered from	n 293T cell line with Lentivirus packaging
Gene Information			
Gene Symbol	ACE2	Species	Human
Gene ID	59272	Swiss Prot	Q9BYF1
Synonyms	ACEH		
Product information			
Parental Cell line	HEK293T		
Amount	1~5×10 ⁶ cells/vial		
Growth Properties	Adherent		
Complete Growth Medium	DMEM+10%(v/v)FBS+1%(v/v)P/S		
Cryopreservation Medium	DMEM+40%(v/v) FBS and 10% (v/v) DMSO		
Packaging	1 vial parental cell line and 1 vial ACE2 Overexpression cell line		
Shipping Conditions	Dry ice		
Storage Condition	Stored in liquid nitrogen for a long time less than -130 $^\circ \! \mathbb{C}$.		
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. 		

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 I 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]

Functional assay 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 0.171ng/mL.

Western blot analysis of extracts from 293T and Human ACE2 Over expression 293T Stable cells, using ACE2 antibody (P14857) at 1:1000 dilution.

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