



## DESCRIPTION

<b>Product</b>	C-HA102, 293T-hsACE2 clonal cell line
<b>Lot</b>	TA-052022-MC
<b>Parental Cell Line</b>	HEK 293T
<b>Transgene</b>	hsACE2 (NM_021804.3)
<b>Selection</b>	0.5 µg/ml Puromycin
<b>Size</b>	1.0 mL/vial (3e6 cells)
<b>Media</b>	Cell Freezing Media (FBS, DMEM, DMSO)
<b>Mycoplasma Test</b>	Negative

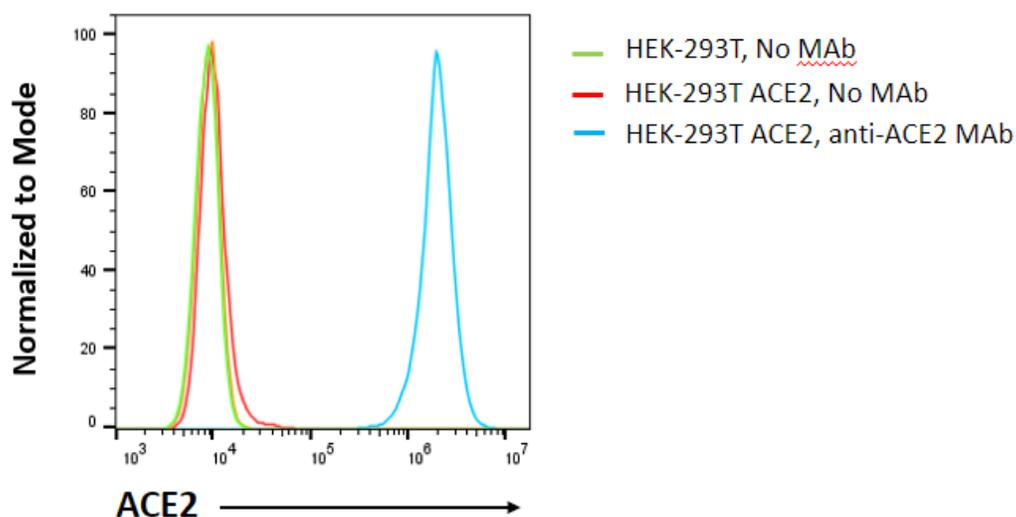
## SAFETY &amp; HANDLING

<b>Shipping</b>	Shipped on dry ice
<b>Storage</b>	Liquid nitrogen vapor phase
<b>Biosafety Level</b>	BSL-2

The 239T-hsACE2 monoclonal cell line was generated using HEK-293T human embryonic kidney cells in order to create a permissive cell line for infection by SARS-CoV-2 Reporter Virus Particles. The cells were transduced using a second-generation lentiviral vector carrying a transgene for hsACE2 (Accession# NM\_021804.3) linked by an IRES to a puromycin resistance gene. Integration and expression were selected for by incubation with Puromycin, and clonal populations developed by limiting dilutions. This clone stably expresses ACE2 for up to 30 passages (Figure 1) and was selected for its transduction efficiency by SARS-CoV-2 RVPs (Figure 2). The cells are adherent and have an epithelial morphology. The cell line is human derived biological materials so should be handled with caution within a BSL2 laboratory environment. Cell lines are not to be used in humans or in animals raised for food.

Please refer to the protocol "Cell passaging and maintenance of 293T-hsACE2 cells" provided on our website for recovery, maintenance, and banking instructions. Do not distribute or use for other applications.

## ACE2 EXPRESSION DATA



**Figure 1.** Flow cytometry analysis of 293T-hsACE2 cells (Cat# C-HA102) with an ACE2 specific monoclonal antibody (R&D Systems Cat# MAB9332-100). Detection using a secondary antibody labelled with AlexaFluor 488 (Jackson ImmunoResearch Cat# 115-545-003). Fluorescence was detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).