TECH DATA SHEET

CELL LINE

DESCRIPTION

Product	C-HA102, 293T-hsACE2 clonal cell line
Lot	TA-060720-MC
Parental Cell Line	HEK 293T
Transgene	hsACE2 (NM_021804.3)
Selection	0.5μg/ml Puromycin
Size	1.0 mL/vial (5e6 cells)
Media	Cell Freezing Media (FBS, DMEM, DMSO)
Mycoplasma Test	Negative
Expiration Date	June 2024

SAFETY & HANDLING

Shipping	Shipped on dry ice
Storage	Liquid nitrogen vapor phase
Biosafety Level	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 expresses ACE2 (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

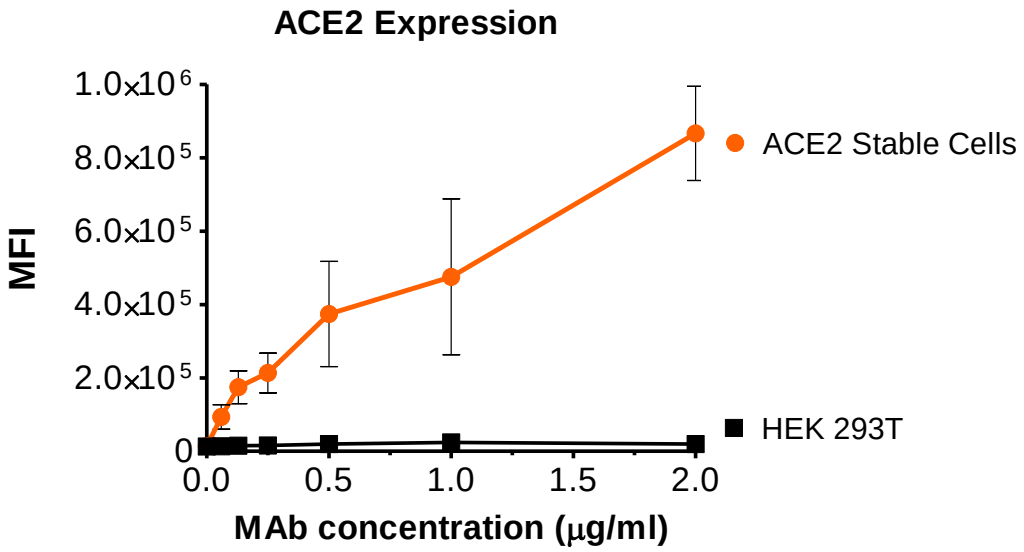

Figure 1. Flow cytometry analysis of 293T-hsACE2 cells (Lot# TA-060720-MC) titration of ACE2 specific monoclonal antibody (R&D Systems Cat# MAB9332-100). Fluorescence was detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).

INFECTIVITY DATA

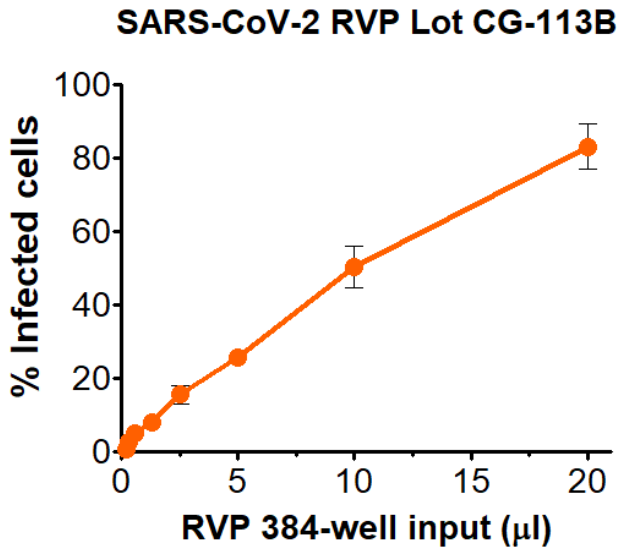

Figure 2. 293T-hsACE2 cells (Lot# TA-060720-MC) infected with titration series of SARS-CoV-2 RVPs (Lot# CG-113B) starting from 20 µl of undiluted SARS-CoV-2 RVPs in a 384-well plate. GFP positive cells were detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).