



SARS-CoV-2 Concerning Cell Lines

The recent emergence of the novel, pathogenic SARS-coronavirus 2 (SARS-CoV-2) in China and its rapid national and international spread pose a global health emergency. At the same time, scientific research on biology of the virus as well as on new diagnostic and therapeutic means is a demanding, urgent task for both, academic institutions and pharmaceutical industry. During this global health emergency, we at Creative Bioarray make every endeavor to support researchers working in this field all over the world.

So far, a variety of cell lines have been used as powerful tool in SARS-CoV-2 research. Creative Bioarray maintains various human and animal cell lines that are invaluable for medical, scientific and pharmaceutical institutions. On this basis we are able to offer most of the cell lines which have been used already for research on corona virus, in particular SARS-CoV-2:

Product name	Description	Cat.	Reference
A-549	Human Lung Adenocarcinoma Cell Line	CSC-C6236X	1, 2
BHK-21	Hamster Kidney Fibroblastoid Cell Line	CSC-C2006	2, 3, 4
HEK 293T	Human embryonic kidney Cell Line	CSC-C3431	1, 3, 4
HUH7	Human Liver carcinoma Cell Line	CSC-C9441L	1, 2
MDCK	Madin-Darby-Canine-Kidney Cell Line	CSC-C8867H	2
PK-15	Pig Kidney Cell Line	CSC-C9580L	1
VERO	Monkey Kidney Cell Line	CSC-C8963H	1, 2
U937	Human Acute Monocytic Leukemia Cell Line	CSC-C8227L	5

Certainly, we can provide more cell lines which also may be of interest in the field of SARS-CoV-2 research. In addition, we can also support you in the analysis of cell lines for their expression of ACE-2 and TMPRSS2.

For more information on our products categories and service capabilities feel free to contact me at info@creative-bioarray.com or visit us at www.creative-bioarray.com.

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2) Hoffmann M, Kleine-Weber H, Schroeder S, Krüger N, Herrler T, Erichsen S, Schiergens TS, Herrler G, Wu NH, Nitsche A, Müller MA, Drosten C, Pöhlmann S. SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. *Cell.* 2020 Mar 4. pii: S0092-8674(20)30229-4. doi: 10.1016/j.cell.2020.02.052.

3) Kleine-Weber H, Elzayat MT, Hoffmann M, Pöhlmann S. Functional analysis of potential cleavage sites in the MERS-coronavirus spike protein. *Sci Rep.* 2018;8(1):16597.

4) Matthew Kaye, Julian Druce, Thomas Tran, Renata Kosteci, Doris Chibo, Jessica Morris, Mike Catton, and Chris Birch. SARS-associated Coronavirus Replication in Cell Lines. *Emerg Infect Dis.* 2006 Jan; 12(1): 128-133. doi: 10.3201/eid1201.050496

5) K. Hattermann, M. A. Muller, A. Nitsche, S. Wendt, O. Donoso Mantke, and M. Niedrig. Susceptibility of different eukaryotic cell lines to SARS-coronavirus. *Arch Virol.* 2005. DOI 10.1007/s00705-004-0461-1.

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