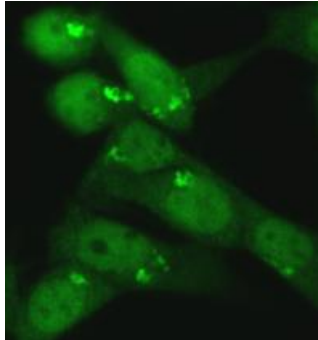


## Covid-19 CELL LINES

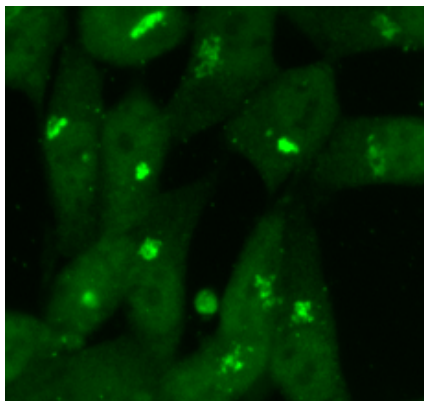
### -SARS-CoV-2 (2019-nCoV) Membrane glycoprotein HEK 293 cell line-



<b>Product Name:</b>	Sars-CoV-2 M protein HEK293 cell line
<b>Catalog Number:</b>	P30921
<b>Cell Line:</b>	HEK293
<b>Resistance:</b>	Hygromycin
<b>Format:</b>	>3x10 <sup>6</sup> cells in Cryopreserved vials
<b>Storage:</b>	Liquid Nitrogen

#### SARS-CoV-2 M protein HEK293

The Sars-CoV-2 M HEK293 cell line has been developed by stable transfection with a SARS-CoV-2 (2019-nCoV) membrane glycoprotein expression plasmid. SARS-CoV-2 M HEK293 cell line provides consistent levels of expression of SARS-CoV-2 membrane glycoprotein.



This cell line is intended to be used as an “in vitro” model for research studies.

#### About SARS-CoV-2 membrane glycoprotein

New SARS-CoV-2 genome contains four major structural proteins: the spike (S), membrane (M), envelope (E) and the nucleocapsid (N) proteins.

SARS-CoV-2 membrane protein M is a 222-amino acid glycosylated structural protein with three N-terminal membrane-spanning domains, which are essential for the assembly of viral particles.

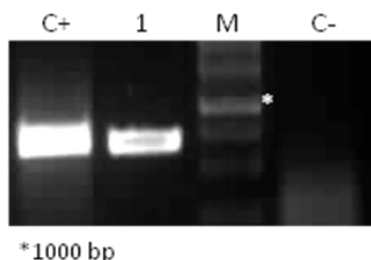
#### **Bibliography:**

Malik YA. Properties of Coronavirus and SARS-CoV-2. *Malays J Pathol.* 2020 Apr;42(1):3-11. PMID: 32342926.

Fu, Y. Z., Wang, S. Y., Zheng, Z. Q., Yi Huang, Li, W. W., Xu, Z. S., & Wang, Y. Y. (2020). SARS-CoV-2 membrane glycoprotein M antagonizes the MAVS-mediated innate antiviral response. *Cellular & molecular immunology*, 1–8. Advance online publication. <https://doi.org/10.1038/s41423-020-00571-x>

### RT-PCR analysis

The presence of SARS-CoV-2 membrane glycoprotein mRNA was analyzed by RT-PCR.



**Figure 1. SARS-CoV-2 membrane glycoprotein RT-PCR analysis.** (1) SARS-CoV-2 M HEK293 cell line. Positive Control (C+): SARS-CoV-2 membrane glycoprotein cDNA. Negative Control (C-): not transfected HEK293 cells.

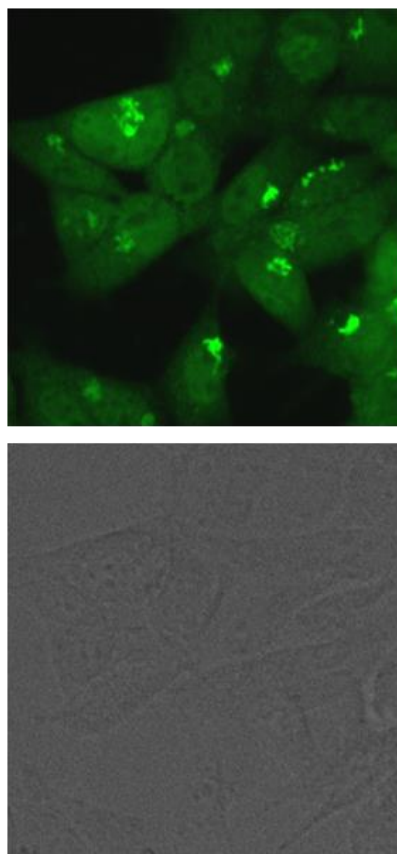
### Quality Control

All cells are performance assayed and test negative for mycoplasma, bacteria, yeast and fungi. Cell viability, morphology and proliferative capacity are measured after recovery from cryopreservation. Innoprot guarantees stable expression for many generations and provides support for cell culture and visualization.

**THIS PRODUCT IS FOR RESEARCH PURPOSES ONLY.** It is not to be used for drug or diagnostic purposes, nor is it intended for human use. Innoprot products may not be resold, modified for resale, or used to manufacture commercial products without written approval of Innovative Technologies in Biological Systems, S.L.

### Immunofluorescence analysis

The detection of SARS-CoV-2 membrane glycoprotein in the cells was carried out by immunofluorescence analysis with an anti-Sars-CoV-2 M protein antibody



**Figure 2. Immunofluorescence assay.** The image in the upper panel shows the localization of Sars-CoV-2 M protein in HEK293 cell line. The image in the lower panel shows bright field.