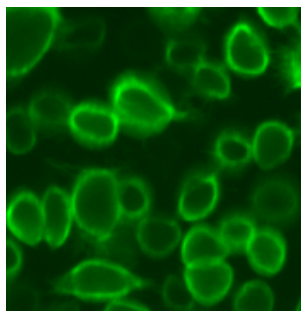


## CELL LINES

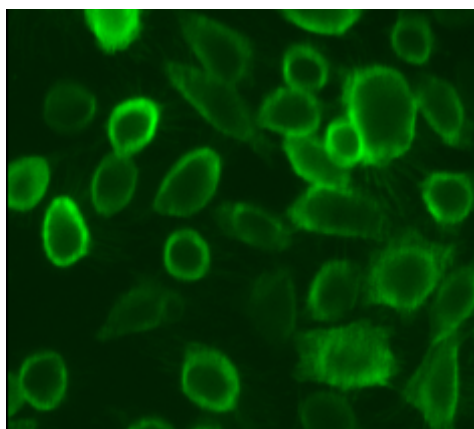
### - IL6R CHO-K1 CELL LINE -



<b>Product Name:</b>	IL6R CHO-K1 cell line
<b>Catalog Number:</b>	P30502
<b>Cell Line:</b>	CHO-K1
<b>Resistance:</b>	Hygromycin
<b>Format:</b>	>3x10 <sup>6</sup> cells in Cryopreserved vials
<b>Storage:</b>	Liquid Nitrogen

#### ILR6 CHO-K1 cell line

The IL6R CHO-K1 cell line has been developed by stable transfection with a human Interleukin 6 Receptor (IL6R, a.k.a. CD126) protein expression plasmid. IL6R CHO-K1 cell line provides consistent levels of expression of human IL6R protein in cells surface.



This cell line is intended to be used as an “in vitro” model for research studies, such as Screening for IL6 antagonists in a cellular context.

#### About ILR6 protein

Interleukin-6 (IL-6) is an important member of the cytokine network and plays a central role in inflammation.

In the classical signal transduction pathway, IL-6 binds to its receptor IL-6R to form a complex, and then binds to the membrane protein gp130 to initiate intracellular signal transduction.

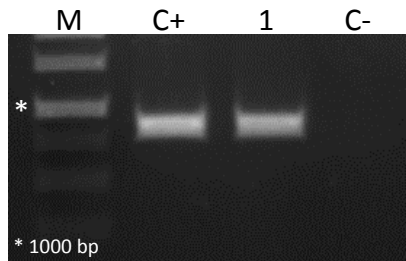
**COVID19:** Antagonists for IL6 could be a possible treatment for severe COVID19 patients with high levels of IL-6.

**Bibliography:** Baran, P., Hansen, S., Waetzig, G. H., Akbarzadeh, M., Lamertz, L., Huber, H. J., Ahmadian, M. R., Moll, J. M., & Scheller, J. (2018). The balance of interleukin (IL)-6, IL-6-soluble IL-6 receptor (sIL-6R), and IL-6-sIL-6R-sgp130 complexes allows simultaneous classic and trans-signaling. *The Journal of biological chemistry*, 293(18), 6762–6775. <https://doi.org/10.1074/jbc.RA117.001163>

Zhang, C., Wu, Z., Li, J. W., Zhao, H., & Wang, G. Q. (2020). The cytokine release syndrome (CRS) of severe COVID-19 and Interleukin-6 receptor (IL-6R) antagonist Tocilizumab may be the key to reduce the mortality. *International journal of antimicrobial agents*, 105954. Advance online publication. <https://doi.org/10.1016/j.ijantimicag.2020.105954>.

### RT-PCR analysis

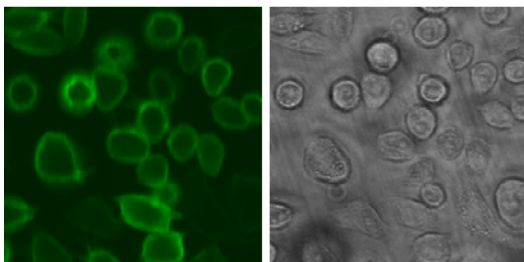
The presence of IL6R mRNA was analyzed by RT-PCR.



**Figure 1. IL6R RT-PCR analysis.** (1) IL6R CHO-K1 cell line. Positive Control (C+): IL6R cDNA. Negative Control (C-): not transfected CHO-K1 cells.

### Immunofluorescence analysis

The detection of IL6R protein in the cells surface was carried out by immunofluorescence analysis with a FITC tagged anti-IL6R antibody.



**Figure 2. Immunofluorescence assay.** The image in the left panel shows the membrane localization of IL6R in CHO-K1 cell line. The image in the right panel shows bright field.

### 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.