

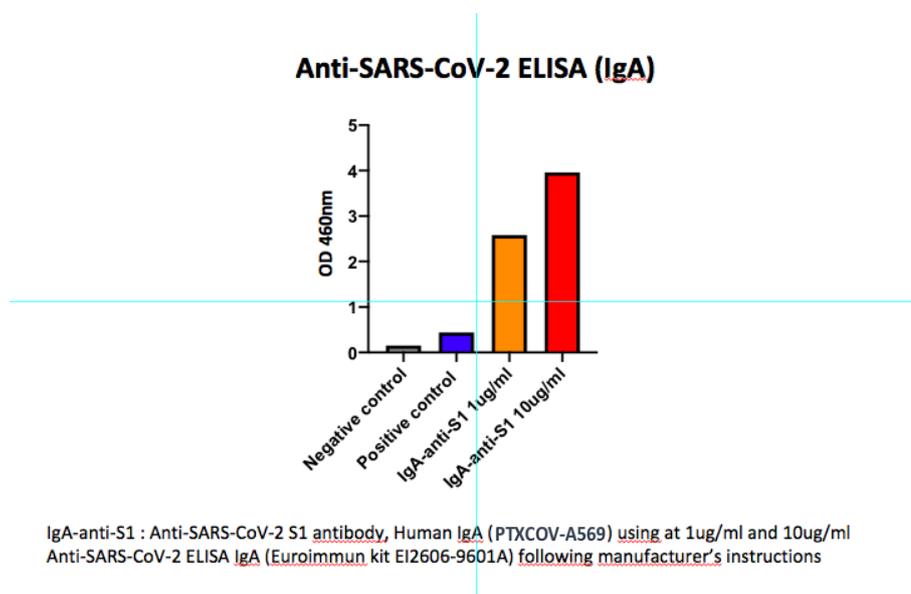
## Application Note

### Introduction

The aim of our experiment is to evaluate antibody dependent phagocytosis of SARS-CoV-2 by monocytes. As a first step, we had to check whether the IgA **PTXCOV-A569** binds to the S1 spike and at which concentration in ELISA.

### Results

As the graph below displays, the IgA **PTXCOV-A569** showed a good signal at 1µg/ml at OD<sub>450nm</sub> after 15 min of reaction development.



### Method

We tested the IgA **PTXCOV-A569** in ELISA using a kit. The plate was precoated with SARS-Cov-2 S1 spike protein. We added the IgA **PTXCOV-A569** at 1µg/ml and 10µl/ml.

We used the reagents from the kit to detect binding of IgA **PTXCOV-A569**. We used the positive and negative controls from the kit as well. Binding was evaluated by spectrophotometry at OD<sub>450nm</sub>.

### Conclusion

We used the entirety of the free sample provided by **ProteoGenix** for this ELISA, we will buy more of the product in order to pursue our experiments and reach our initial aim.

Once we have more IgA **PTXCOV-A569**, we will continue to test the IgA **PTXCOV-A569** at 1µg/ml in our function assay of antibody dependent phagocytosis.