

Protein Production Platform with Silkworm System

MISSION

KAICO is a Kyushu University startup with a mission of "Academic Value to Social Value". We produce useful but difficult-to-express proteins at high speed and low cost.

Core technology: Silkworm-baculovirus expression system

- Suitable to produce complex protein due to PTMs similar to mammalian.
- Large scale productions only by breeding silkworms.





silkworm's body.

Protein expression in the



Collection and Purification of the targeted protein.



Development of raw materials for vaccine, diagnostic kit and research reagents.



(dala)







Vaccines

the gene of interest.

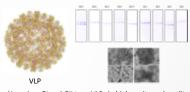
Injection of Baculovirus containing

1. SARS-CoV-2 Spike glycoprotein



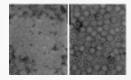
- SARS-CoV-2 trimetric Spike protein in high purity and quality.
- Neutralizing antibody induced in mice experiments

2. Norovirus VLPs (Virus like particles)



- Norovirus GI and GII type VLPs in high purity and quality.
- High titers of antibody confirmed in mice experiments

3. Porcine infectious virus VLPs



- High productivity: 500 shots/silkworm
- Co-development with Japanese animal pharm companies.
- GMP production facility ready to use in 2021

Diagnostic kits

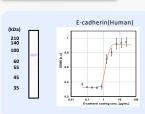
1. SARS-CoV-2 antibody detection kit

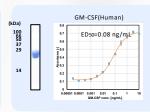


We have co-developed SARS-CoV-2 antibody detection kit with Protects Co., Ltd(JP).

This kit contains our recombinant S protein and recombinant anti-SARS-Cov-2 S protein antibody. The home finger-prick blood test service is launched from Oct 2020.

Reagents





 $SCF(Human) \ / \ TNF-\alpha(Human) \ / \ Vitronectin \ (Human) \ / \ VEGFa121(Human) \ / \ bFGF(Human) \ / \$ Interleukin-3(Mouse)

NEW! SARS-CoV-2 spike protein / Anti-SARS-CoV-2 antibody / Norovirus Gl.2, Gl.3, Gll.3, Gll.4,

Please refer to our brochures in detail

2.Immunochromatographic strip test for canine Babesiosis



Protein Expression Service

We produce a protein expression and purification service. Please contact us if you are interested in this service.

Collaborated with



University





Contact

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