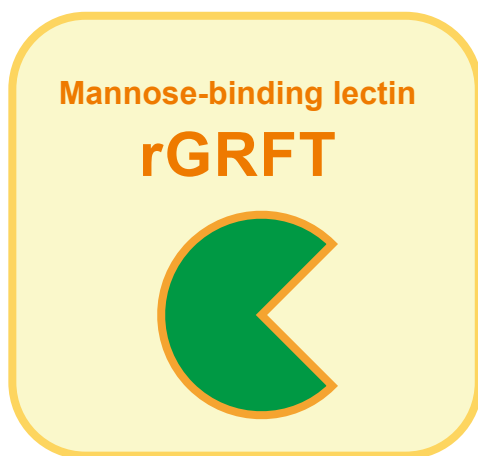


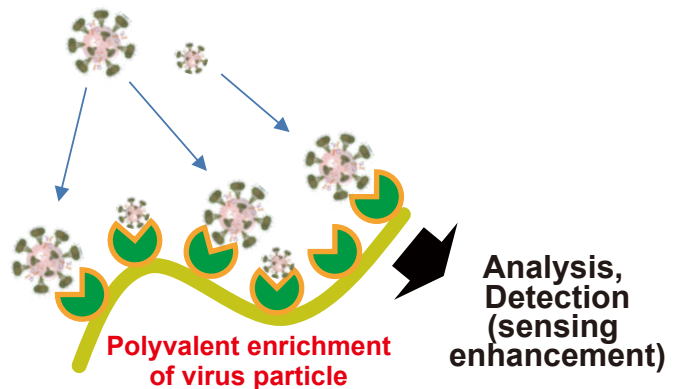
Antiviral Lectin against SARS-CoV-2 GRFT (Griffithsin)

Recombinant *Griffithsia sp.* lectin (= rGRFT) 1mg/vial [R0229]

The GRFT (Griffithsin), which is derived from red algae, is expected for practical use as an antiviral lectin (glycan-binding protein) against pathogenic viruses like HIV. Recently, it has been reported that GRFT exhibits various types of antiviral effects against SARS-CoV-2. The recombinant GRFT is available in large quantities.

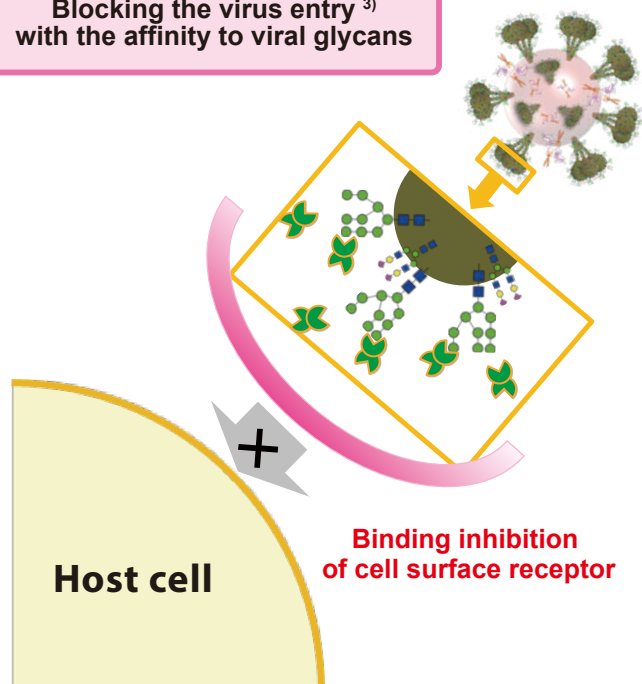
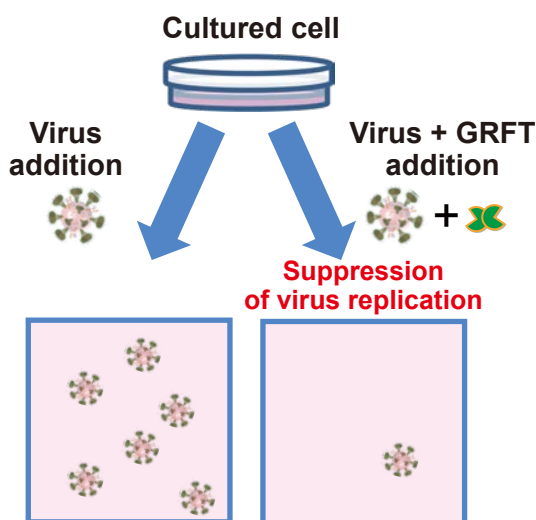


Capturing of virus particle¹⁾
(Enrichment)
by the multivalent immobilization



Inhibiting viral growth²⁾
in the co-culture

Blocking the virus entry³⁾
with the affinity to viral glycans



References

- 1) G. Özkul *et al.*, *Adv. Mater. Interfaces* **2022**, 13, 2201126.
- 2) S. Alsaïdi *et al.*, *Mar. Drugs* **2021**, 19, 418.
- 3) R.E. Ahan *et al.*, *ACS Infect. Dis.* **2022**, 8, 1253.

Antiviral Lectin against SARS-CoV-2: GRFT (Griffithsin)

Modified GRFT

Agarose-immobilized GRFT

rGRFT-LecBeads [for Man α (1-2)Man] 1mL/vial [R0239]

Biotinylated GRFT

rGRFT-Biotin [for Man α (1-2)Man] 1mL/vial [R0234]

Lectins (Glycan-binding Proteins)

LecBeads (Lectin-agarose)

rPSL1a-LecBeads [for Sia α (2-6)Gal] 1mL/vial [R0235]

rLSL-N-LecBeads [for Gal β (1-4)GlcNAc, poly LacNAc] 1mL/vial [R0236]

rMOA-LecBeads [for Gal α (1-3)Gal] 1mL/vial [R0237]

rSRL-LecBeads [for GlcNAc β (1-2)Man, Gal β (1-3)GalNAc] 1mL/vial [R0238]

AOL-LecBeads [for Fuca(1-6)/ α (1-4)/ α (1-3)/ α (1-2)] 0.5mL/vial [A3331]

R0235, R0236, R0237, R0238, R0239 were developed in collaboration with National Institute of Advanced Industrial Science and Technology (AIST), Japan.

Biotinylated Lectins

rPSL1a-Biotin [for Sia α (2-6)Gal] 1mL/vial [R0230]

rLSL-N-Biotin [for Gal β (1-4)GlcNAc, poly LacNAc] 1mL/vial [R0231]

rMOA-Biotin [for Gal α (1-3)Gal] 1mL/vial [R0232]

rSRL-Biotin [for GlcNAc β (1-2)Man, Gal β (1-3)GalNAc] 1mL/vial [R0233]

AOL-Biotin Conjugate 1mL/vial [A2659]

Lectins (Unmodified Lectin)

Recombinant *Polyporus squamosus* lectin (= rPSL1a) expressed in *Escherichia coli* 1mg/vial [R0225]

Recombinant *Laetiporus sulphureus* lectin N-Terminal Domain (= rLSL-N) expressed in *Escherichia coli* 1mg/vial [R0226]

Recombinant *Marasmius oreades* agglutinin (= rMOA) expressed in *Escherichia coli* 1mg/vial [R0227]

Recombinant *Sclerotium rolfsii* lectin (= rSRL) expressed in *Escherichia coli* 1mg/vial [R0228]

Lectin, Fucose specific (= AOL) from *Aspergillus oryzae* 5mg/vial [L0169]

R0225, R0226, R0227, R0228, R0229 were commercialized under license from National Institute of Advanced Industrial Science and Technology (AIST), Japan.

L0169 was merchandized under the technical tie-up with GEKKEIKAN SAKE COMPANY, LTD.

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