

SARS-CoV-2

COVID-19 Pseudovirus Neutralizing Antibody Assay (Luciferase)

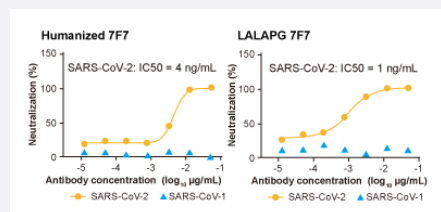
Catalog # KA6152

Size 1 Kit

Applications

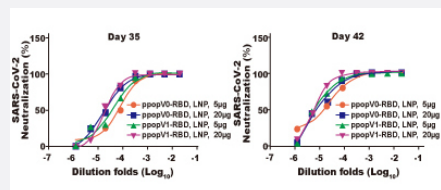
Neutralization

SARS-CoV-2 spike pseudovirus expressing luciferase is treated with humanized monoclonal antibody 7F7 and LALAPG 7F7, and then added into 293T-ACE cells.



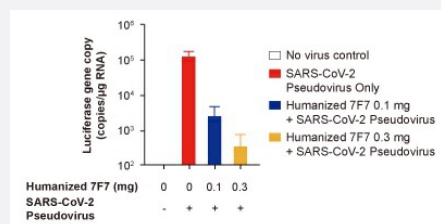
Neutralization

RBD-binding IgG responses in mouse sera collected 35 days and 42 days after immunization with 5 µg or 20 µg COVID-19 RBD SAM LNP no adjuvant (ppopV0) and 5 µg or 20 µg COVID-19 RBD SAM plus adjuvant (ppopV1).



In vivo Neutralization

Hamsters received 2 doses of humanized monoclonal antibody 7F7 and then were infected with SARS-CoV-2 Pseudovirus Expressing Luciferase (Cat # U0401).



Specification

Product Description

COVID-19 Pseudovirus Neutralizing Antibody Assay (Luciferase) provides a highly sensitive and quantitative measurement of neutralizing antibodies.

Supplied Product	Kit content: 1 kit is sufficient for 100 assays in 24 well plates 1. 293T-hACE2 cell, 2x10 ⁶ cells/vial, FBS with 10% DMSO 2. SARS-CoV-2 Pseudovirus Expressing Luciferase
Materials Required But NOT Supplied	1. SARS-CoV-2 Monoclonal Antibody, Cat# MAB22854-M07, Abnova 2. ZymeFree™ Enzyme Free Cell Dissociation Reagent, Cat# TCL028-100ML, HIMEDIA 3. DMEM culture medium containing 10% FBS (complete medium) 4. Luciferase Assay System, Cat# E1500, Promega - Luciferase Assay Substrate (lyophilized) - Luciferase Assay Buffer - Luciferase Cell Culture Lysis Reagent, 5X 5. TC-Treated 24 Well Plates, Cat# 3524, Corning 6. OptiPlate™-96, Cat# 6005290, PerkinElmer
Suitable Sample	1. Immunized Serum 2. Infected Serum 3. Neutralizing Antibodies 4. Peptide Inhibitors or Proteins 5. Compounds Targeting Spike Induced Cell Fusion
Sample Volume	10-50 uL (please check sample source)
Assay Type	Quantitative
Detection Method	Luciferase Activity
Technology	Pseudovirus
Regulatory Status	For research use only (RUO)
Storage Instruction	293T-hACE2 cell Store at liquid nitrogen. Pseudovirus Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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