

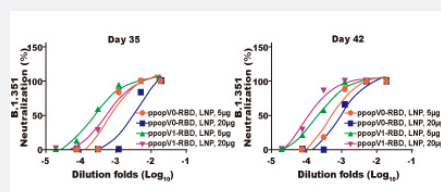
## SARS-CoV-2

# COVID-19 Beta Variant Pseudovirus Neutralizing Antibody Assay (Luciferase)

Catalog # DE0005

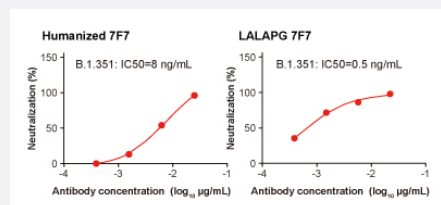
Size 1 Kit

## Applications



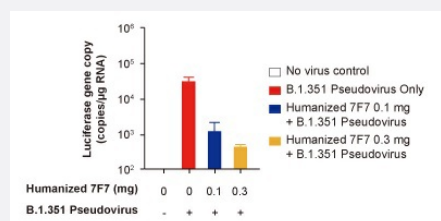
### Neutralization

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



### Neutralization

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



### In vivo Neutralization

Hamsters received 2 doses of humanized monoclonal antibody 7F7 and then were infected with SARS-CoV-2 Bata Variant Pseudovirus Expressing Luciferase (Cat # U0403).

## Specification

<b>Product Description</b>	COVID-19 Beta Variant Pseudovirus Neutralizing Antibody Assay (Luciferase) provides a highly sensitive and quantitative measurement of neutralizing antibodies.
<b>Supplied Product</b>	Kit content: 1 kit is sufficient for 100 assays in 24 well plates 1. 293T-hACE2 cell, $2 \times 10^6$ cells/vial, FBS with 10% DMSO 2. SARS-CoV-2 Beta Variant Pseudovirus Expressing Luciferase
<b>Materials Required But NOT Supplied</b>	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 <ol style="list-style-type: none"> <li>Luciferase Assay Substrate (lyophilized)</li> <li>Luciferase Assay Buffer</li> <li>Luciferase Cell Culture Lysis Reagent, 5X</li> </ol> 5. TC-Treated 24 Well Plates, Cat# 3524, Corning 6. OptiPlate™-96, Cat# 6005290, PerkinElmer
<b>Variant</b>	B.1.351
<b>Suitable Sample</b>	1. Immunized Serum 2. Infected Serum 3. Neutralizing Antibodies 4. Peptide Inhibitors or Proteins 5. Compounds Targeting Spike Induced Cell Fusion
<b>Sample Volume</b>	10-50 uL (please check sample source)
<b>Detection Method</b>	Luciferase Activity
<b>Technology</b>	<a href="#">Pseudovirus</a>
<b>Regulatory Status</b>	For research use only (RUO)
<b>Storage Instruction</b>	293T-hACE2 cell Store at liquid nitrogen. Pseudovirus Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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