



Sorrento Potent Omicron Neutralizing Antibody (nAb)

STI-9167 IV

STI-9199 IN

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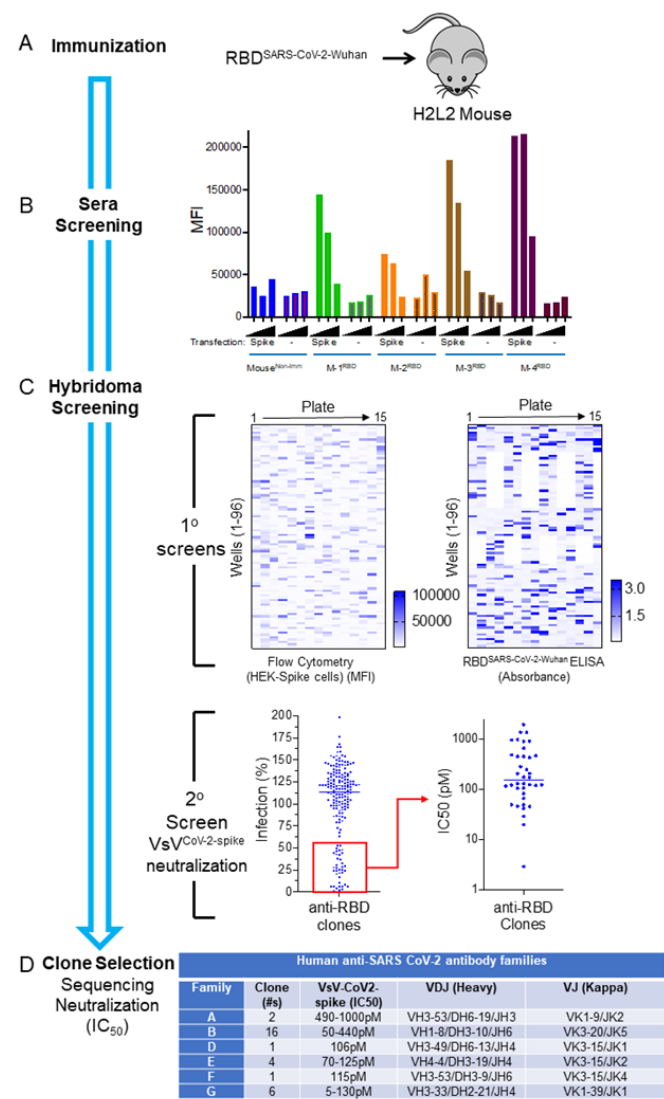
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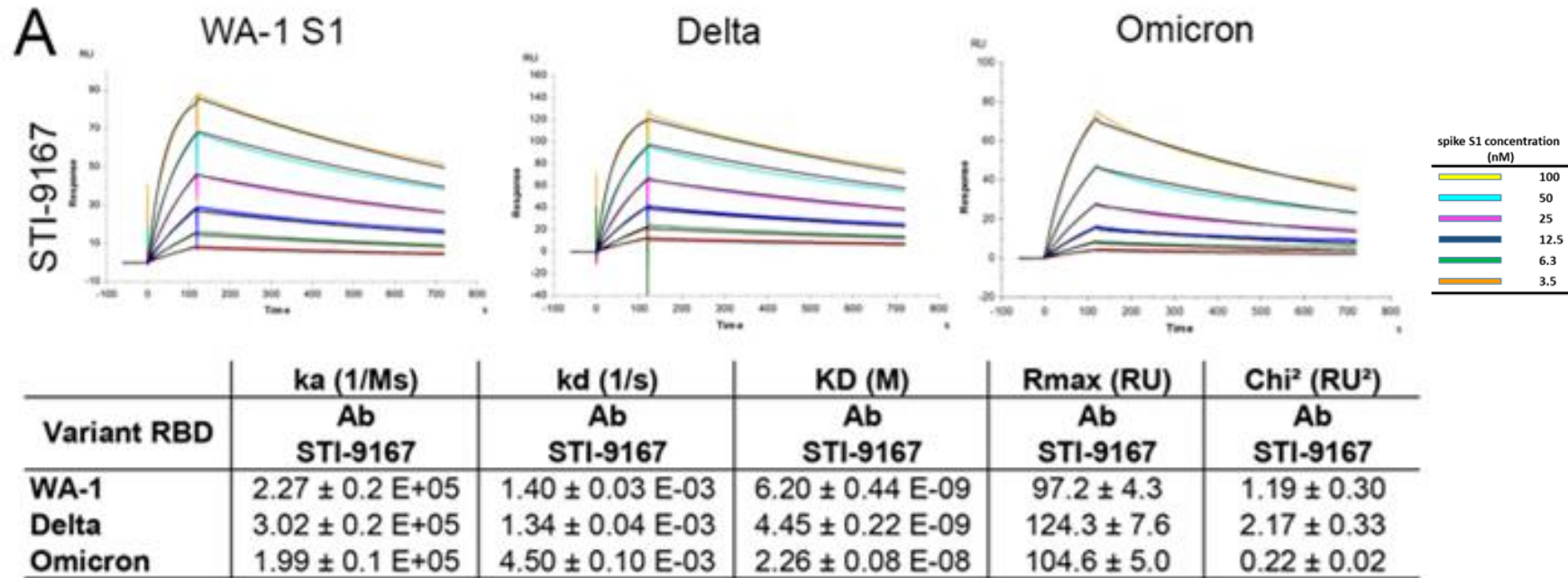
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Discovery of STI-9167



STI-9167 Binding to S1 Domain of SARS-CoV-2 Variants of Concern (VOCs)

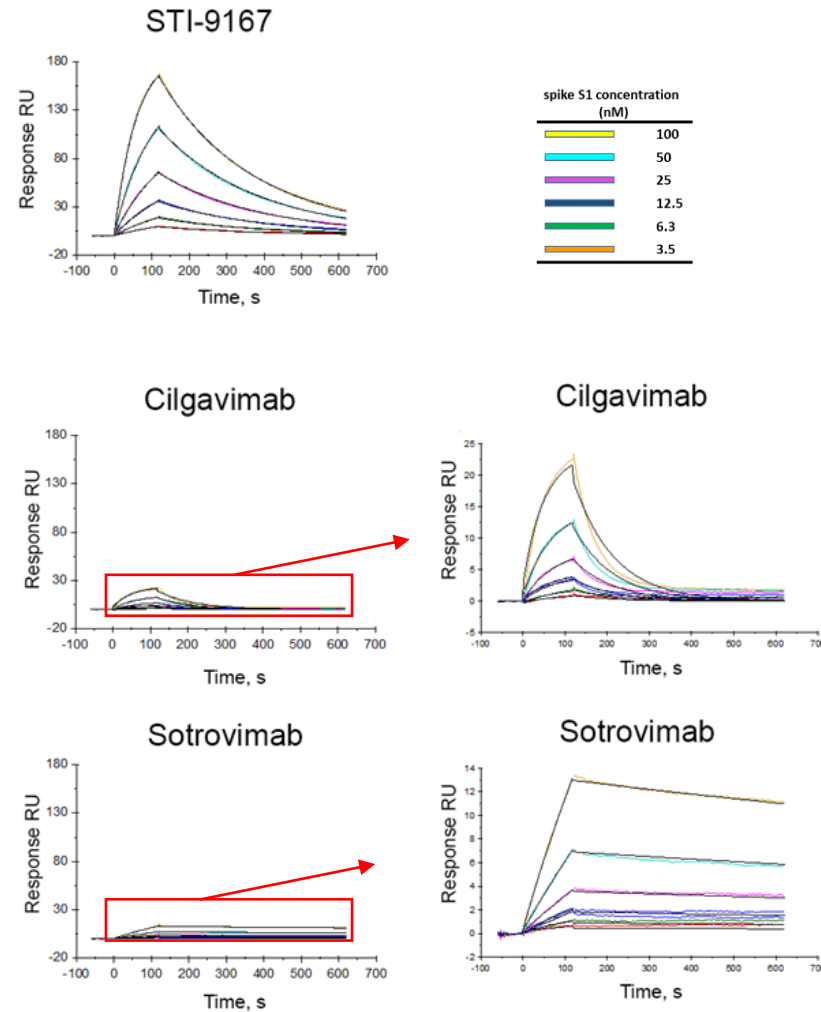


Analyte: WA-1, Delta, or Omicron spike S1 domain

Instrument: Biacore T200

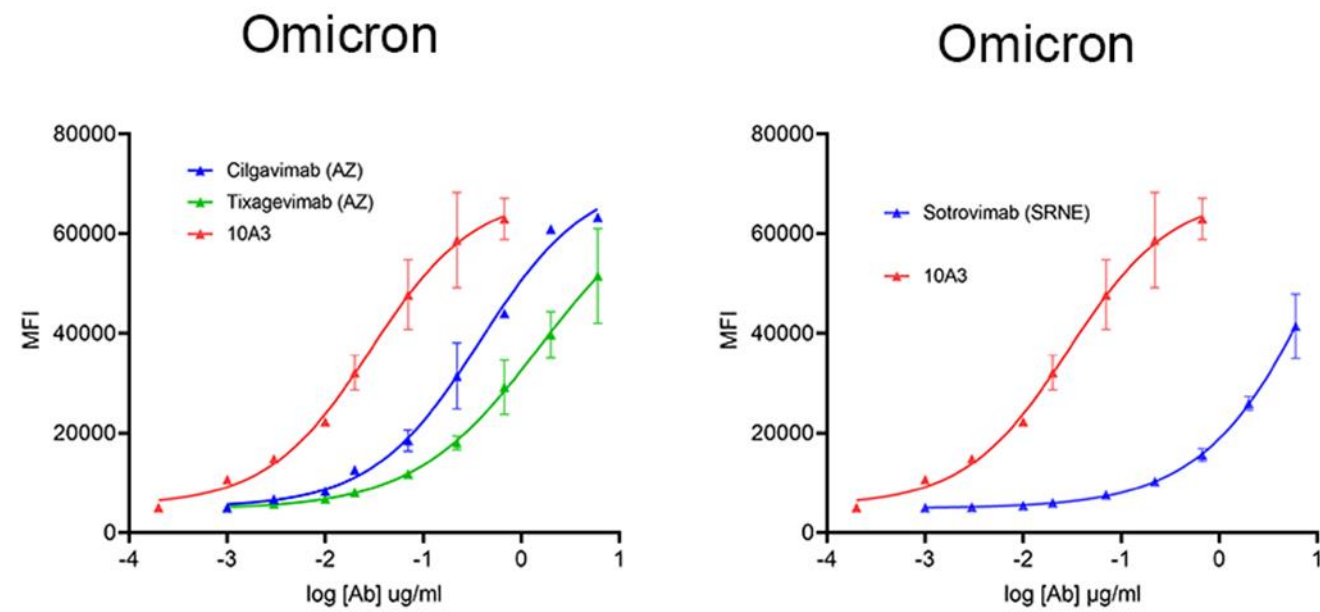
STI-9167 Binding Kinetics to Spike S1 Domain Compared to Those of EUA-approved nAbs

Binding Affinity Spike S1 Omicron



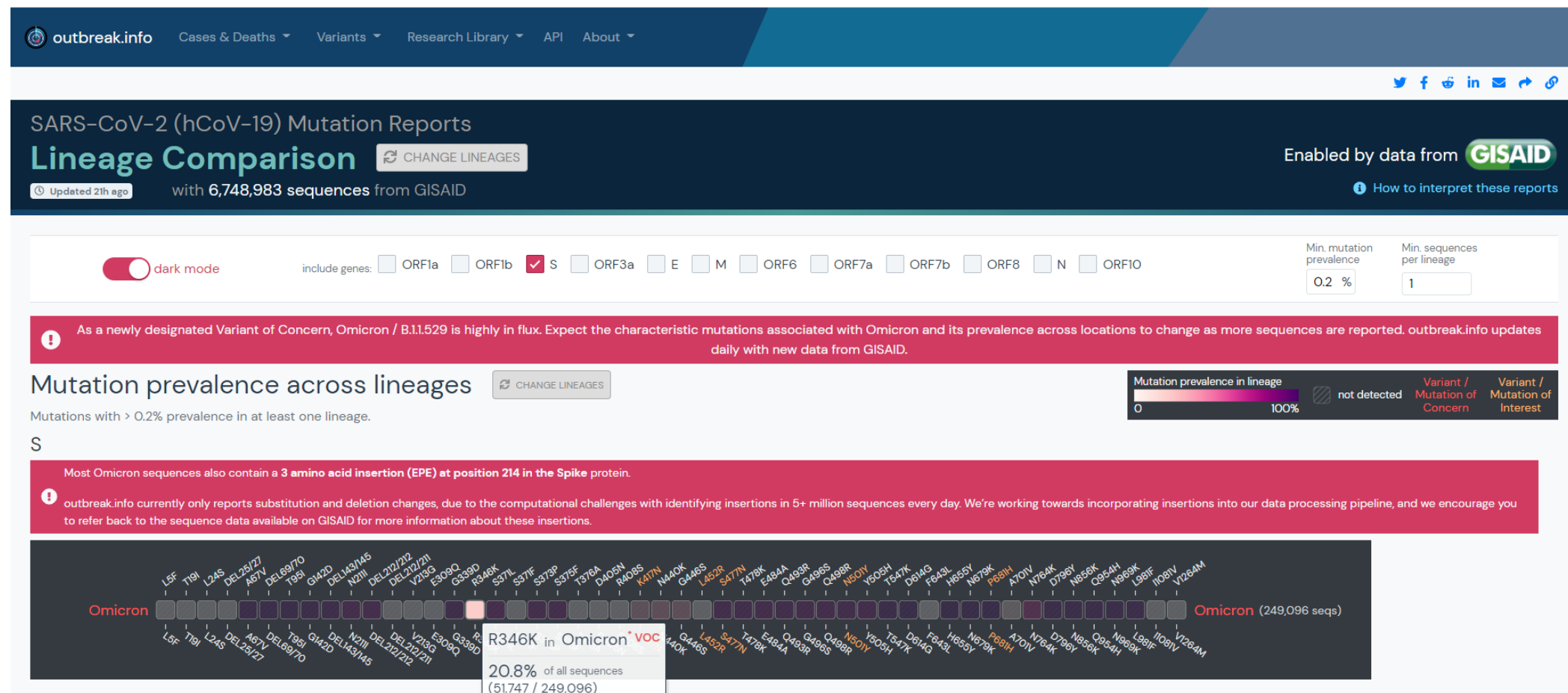
Analyte: Omicron spike S1 domain
Instrument: Biacore T200

STI-9167 Binding to SARS-CoV-2 VOC Spike Proteins Expressed on HEK293 Cells



cell-expressed spike binding EC50 (µg/mL)	
Variant spike	Ab
WA-1	STI-9167
Delta	0.025
Omicron	0.011
Omicron + R346K	0.025
	0.023

Omicron Variant and Omicron + R346K Mutation Infection Statistics

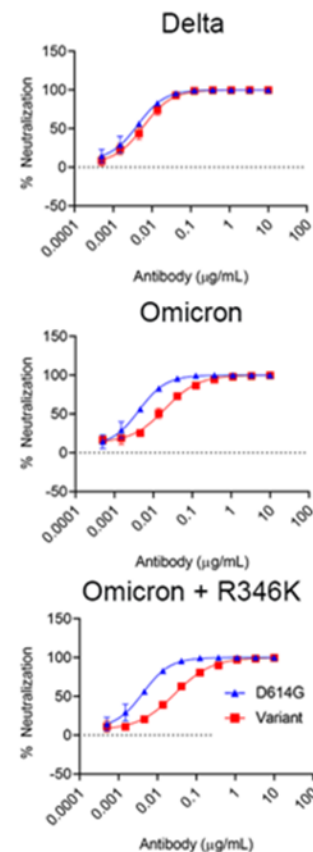


To date: No SARS-CoV-2 nAb approved or in development has been shown to have potent neutralization activity (≤ 100 ng/ml) against the Omicron + R346K variant

SARS-CoV-2 Spike-Pseudotyped VSV Neutralization Assay

Variant lineage	nAb IC ₅₀ (μg/ml)
	STI-9167
D614G	0.0036
Alpha (B.1.1.7)	0.0029
Beta (B.1.351)	0.0195
Gamma (P.1)	0.0063
Delta (B.1.617.2)	0.0054
Delta Plus (B.1.617.2.1)	0.0033
Epsilon (B.1.429)	0.0040
Zeta (P.2)	0.0034
Iota (B.1.526)	0.0194
Iota (B.1.526.2)	0.0024
Kappa (B.1.617.1)	0.0090
Lambda (C.37)	0.0027
Mu (B.1.621)	0.0186
Omicron (B.1.1.529)	0.0148
Omicron+R346K (B.1.1.529)	0.0239

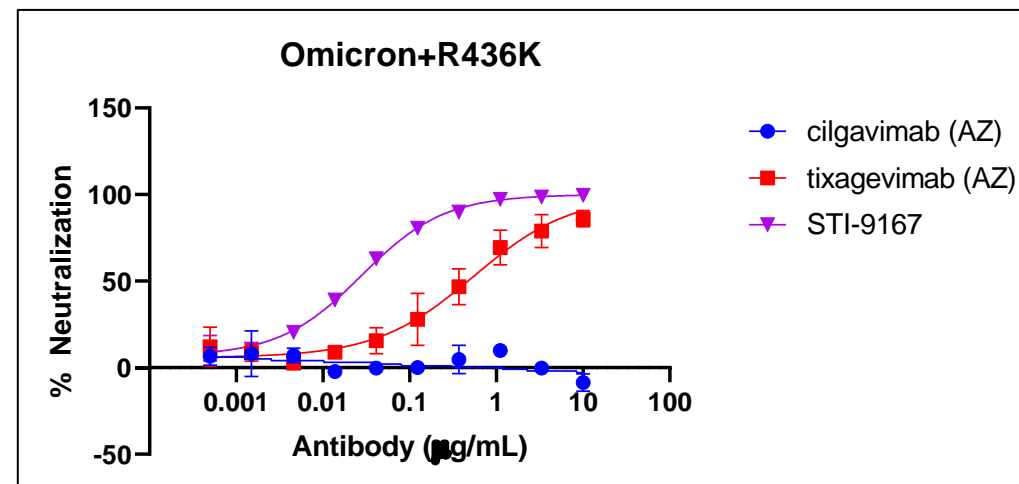
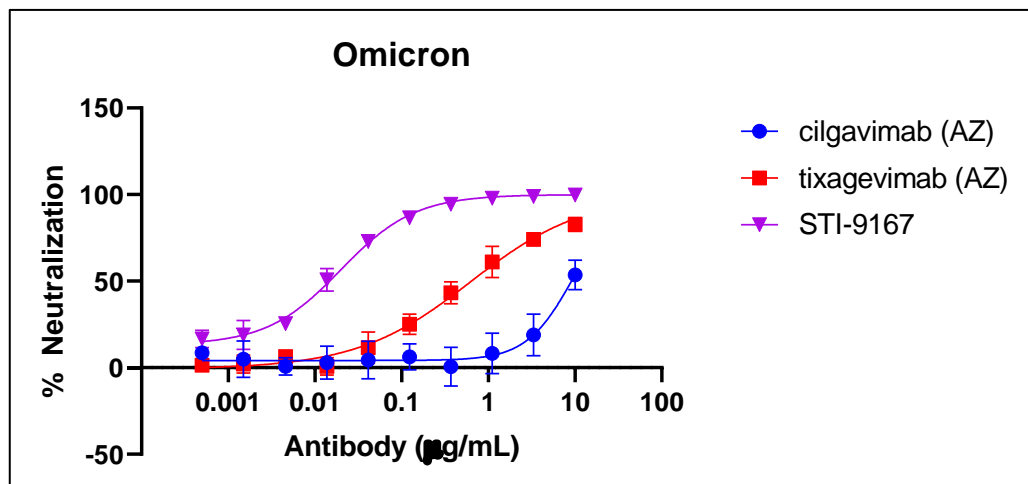
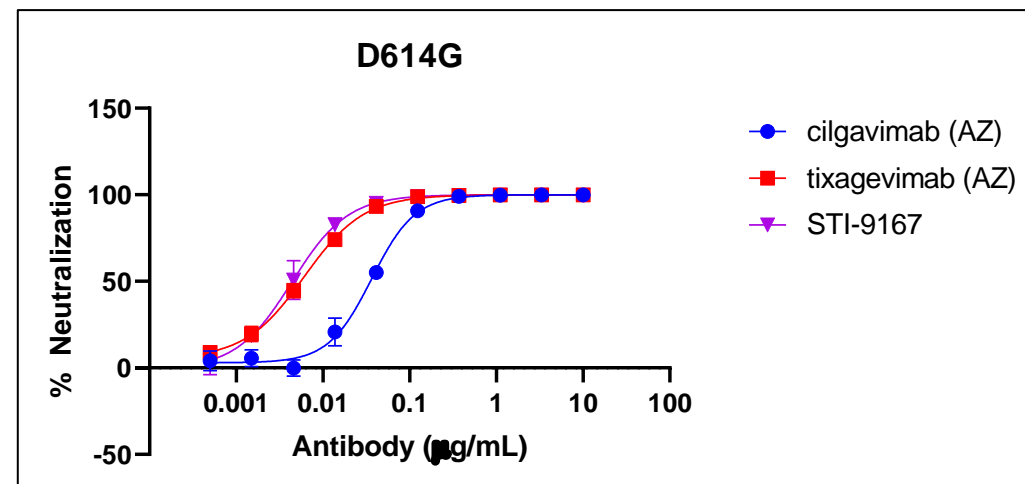
IC50 vs D614G only			
<10x	>10x	>100x	>10 ug/mL



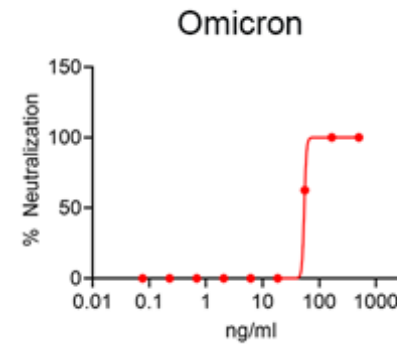
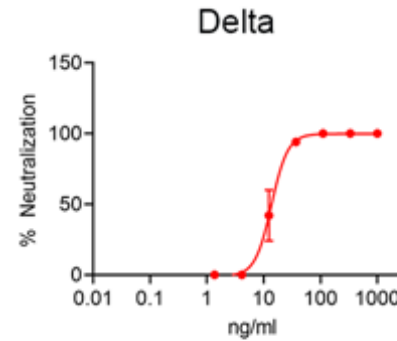
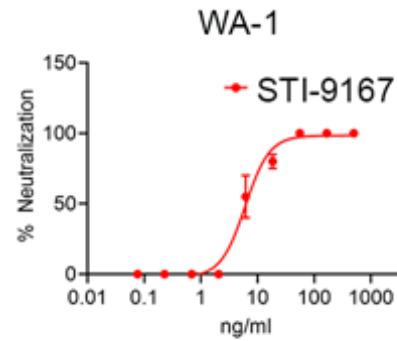
STI-9167 Superior Neutralization Activities Against Omicron and Omicron+R346K Variants in SARS-CoV-2 Spike-Pseudotyped VSV Neutralization Assays

IC50 (ug/mL)

Variant Lineage	STI-9167	Cilgavimab (AZ)	Tixagevimab (AZ)
D614G	0.0036	0.0353	0.0056
Omicron (B.1.1.529)	0.0148	9.105	0.6386
Omicron+R346K (B.1.1.529)	0.0239	>10	0.4696



Neutralization Activity of STI-9167 in the SARS-CoV-2 Live Virus Neutralization Assays

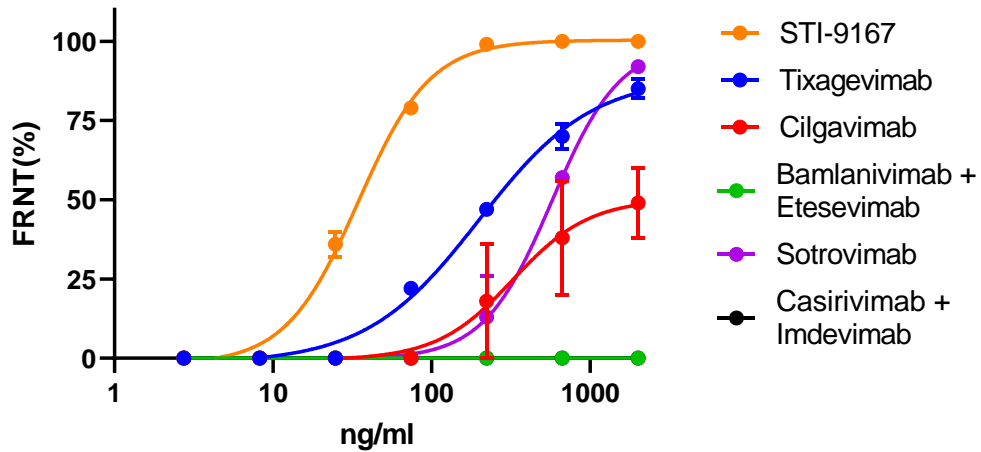


Virus neutralization IC₅₀
(ng/mL)

Virus	Ab STI-9167
WA-1	6.041
Delta	13.7
Omicron	54.29

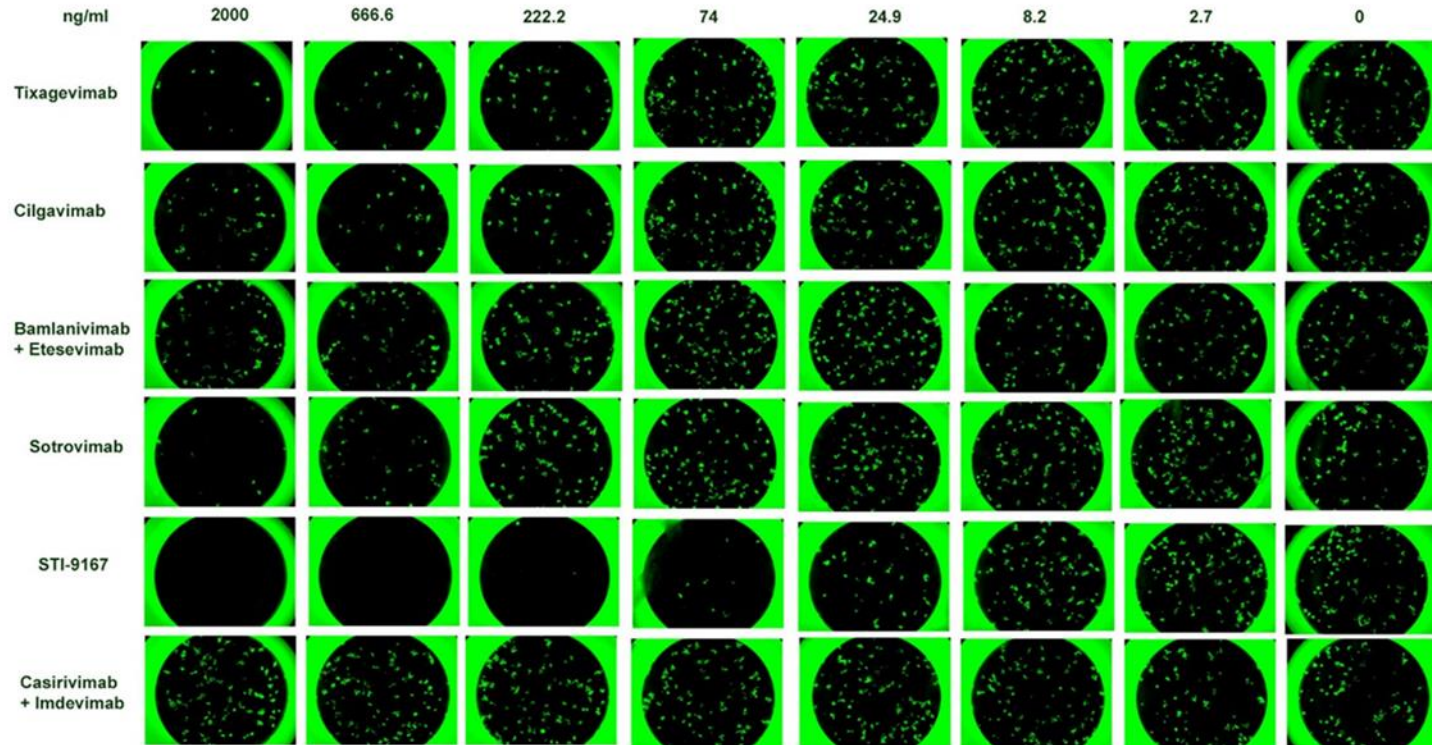
Superior Neutralization Activity of STI-9167 as Compared to EUA-approved Neutralization Antibodies (nAbs) in the SARS-CoV-2 Live Omicron Virus Neutralization Assays

Omicron



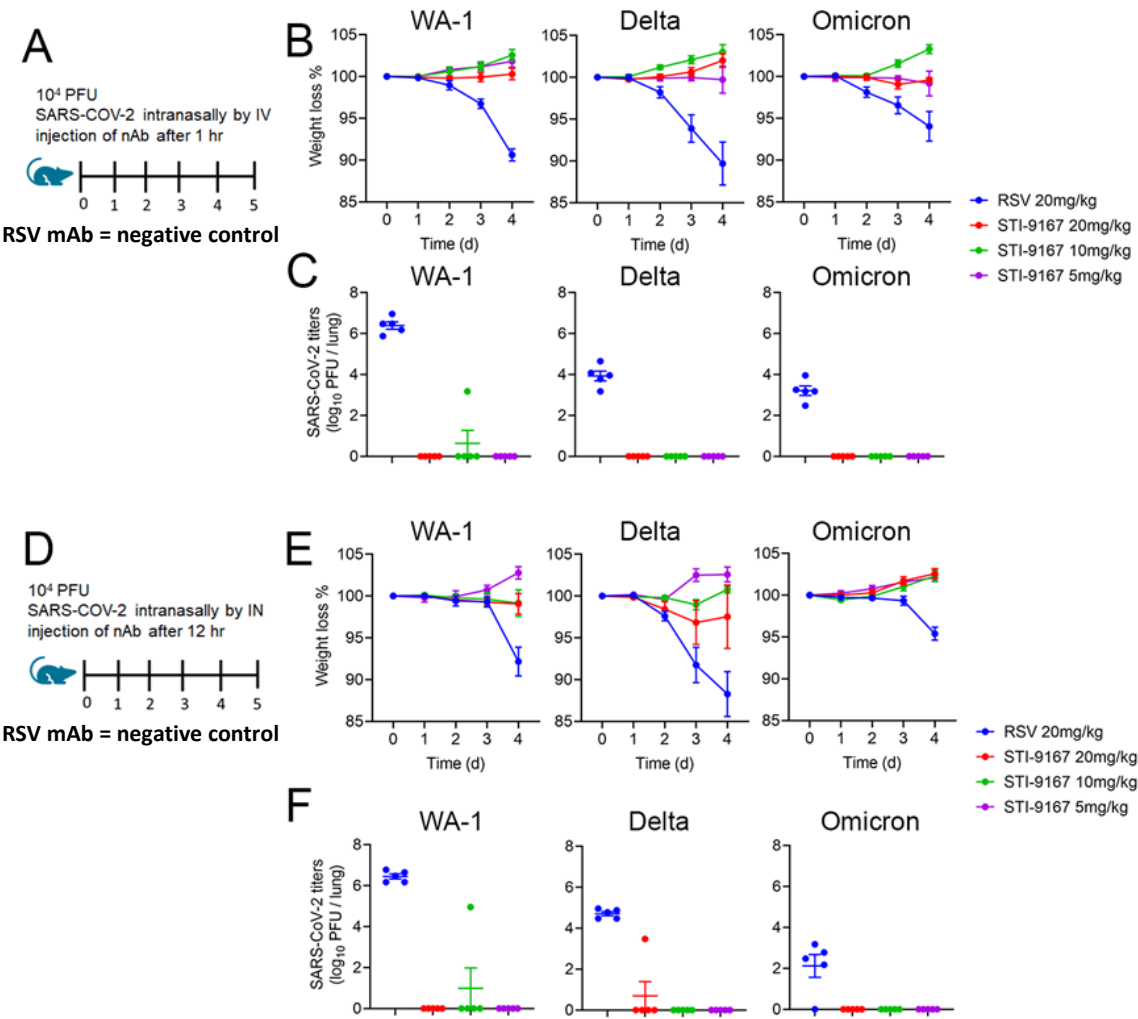
Omicron virus neutralization IC₅₀ ng/ml

STI-9167	34.4
Tixagevimab	198.9
Cilgavimab	326
Sotrovimab	573.1
Bamlanivimab + Etesevimab	> 2000
Casirivimab + Imdevimab	> 2000



- Vero cells infected with 500 pfu Omicron variant virus
- Infection visualized with anti-SARS-CoV-2 nucleoprotein antibody

STI-9167 Neutralizing Activity Following IN or IV Administration in the K18-hACE2 Transgenic Mouse Model of COVID-19



STI-9167 GMP Manufacturing and Clinical Developmental Status

- ✓ **STI-9167 GMP Master Cell Bank generation completed**
- ✓ **STI-9167 GMP Drug Product to supply Phase 1/2 studies formulated for intranasal and intravenous dosing has been F/F**
 - ✓ **Already manufactured enough drug substance for 100,000's of intranasal doses**
- ✓ **IND-enabling preclinical safety and toxicology studies completed**
- **IND submission in early February**
- **Phase 1 clinical trials planned in healthy individuals and infected patients for both intranasal formulation (COVIDROPS) and intravenous formulation (COVISHIELD)**