



TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-2301G, Andes Reporter Virus Particles (RVPs)
Lot	HTG-1115B
Strain	Epuyen/18-19_Patient_19_1/2/19
Reporter	GFP
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Viral Titer	1.87×10^7 TU/ml
Recommended Input	1 μ L per well (96-well plate) for >20% infectivity in a flow assay*
Mycoplasma Test	Negative
Expiration Date	June 2028

SAFETY & HANDLING

Shipping	Shipped on dry ice
Stability and Storage	Store at $\leq -80^\circ\text{C}$ upon receipt

* Determined in the HEK-293T cell line

Andes (ANDV) RVPs are used to test the ability of serum, antibodies, and drugs to neutralize Andes virus infectivity. RVPs display antigenically correct glycoprotein pseudotyped on replication-incompetent virus particles that contain a heterologous VSV core. RVPs are capable of a single round of infection and carry a genome that expresses a GFP expression gene upon infection. RVPs are produced in HEK-293T cells using a plasmid encoding the glycoprotein.

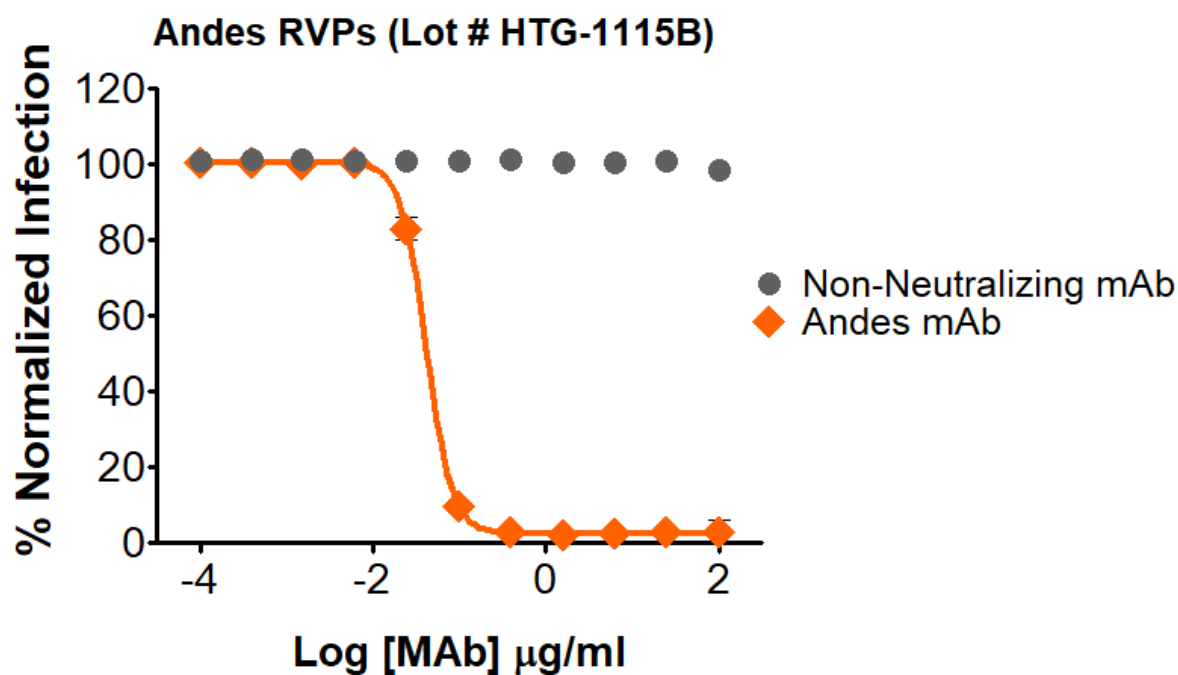
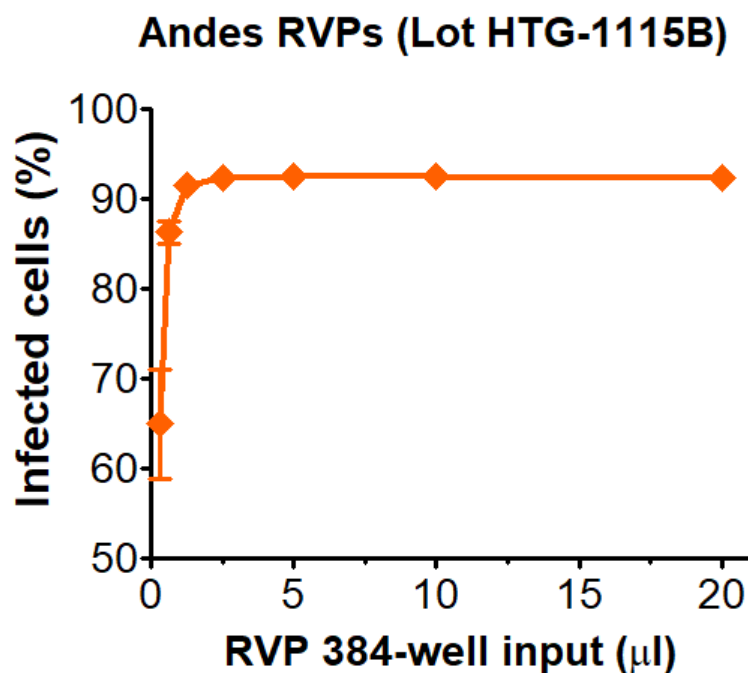
Andes RVPs are created using a Δ G-VSV pseudotyping system and are derived from biological materials so should be handled with caution within a BSL2 or enhanced BSL2 laboratory environment. RVPs are not to be used in humans or in animals raised for food.

Thaw tubes in a 37°C water bath for 3 minutes and place on ice until ready to use. RVPs will appear as a translucent solution. Gently mix prior to use and pulse tube for 3 seconds at high speed in a tabletop microfuge to recover all volume from the tube. Vortexing of RVPs should be avoided. Re-freezing of RVPs is not recommended.

† Titer is calculated using the estimated number of cells at the end of the experiment, using the following equation:

$$\left[\left(\frac{\% \text{ GFP positive cells}}{100} \right) \times \left(\frac{9,000 \text{ cells}}{1 \text{ well}} \right) \times \left(\frac{1 \text{ well}}{\text{RVP input } (\mu\text{L})} \right) \right] \times \frac{1000 \mu\text{L}}{1 \text{ mL}} = X \frac{\text{Transforming Units (TU)}}{\text{mL}}$$

INFECTIVITY & NEUTRALIZATION DATA



Infectivity and neutralization determined in HEK-293T cells. Infectivity data represents the average of three independent vials, each tested in quadruplicate.

Neutralization utilized 5 μl of Andes RVPs in a 384-well plate. GFP positive cells were detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).