

Whole Cell Antigen, SARS-Related Coronavirus 2, Isolate USA-WA1/2020 with Uninfected Control Vero E6 Cells with High Expression of Angiotensin-Converting Enzyme 2, Gamma-Irradiated

Catalog No. NR-53911

For research use only. Not for use in humans.

Contributors:

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Manufacturer:

University of Texas Medical Branch, Galveston, Texas, USA, under government contract

Product Description:

NR-53911 consists of crude preparation of cell lysate and supernatant from uninfected *Cercopithecus aethiops* kidney epithelial cells with high expression of angiotensin-converting enzyme 2 (Vero E6-heACE2) and from cells infected with severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020. These lysates were gamma-irradiated (5×10^6 RADs) on dry ice, followed by sonication.

NR-53911 consists of the two components listed in Table 1. Descriptions of each component are included below.

Table 1: SARS-CoV-2 Whole Cell Antigen Kit

Lysate Type	BEI Resources Catalog Number
Gamma-irradiated uninfected Vero E6-heACE2 cell lysate control	NR-53909
Gamma-irradiated SARS-CoV-2, isolate USA-WA1/2020 infected Vero E6-heACE2 cell lysate	NR-53910

SARS-CoV-2, isolate USA-WA1/2020 was isolated from an oropharyngeal swab from a patient with a respiratory illness who had recently returned from travel to the affected region of China and developed clinical disease (COVID-19) in January 2020 in Washington, USA.¹

Material Provided:

Each kit contains one vial of each lysate, containing approximately 0.1 mL of gamma-irradiated and sonicated cell lysate and supernatant.

Packaging/Storage:

NR-53911 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-53911 is functional in ELISA. The recommended dilution of NR-53911 for ELISA is 1:2000.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Whole Cell Antigen, SARS-Related Coronavirus 2, Isolate USA-WA1/2020 with Uninfected Control Vero E6 Cells with High Expression of Angiotensin-Converting Enzyme 2, Gamma-Irradiated, NR-53911.”

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

Disclaimers:

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References:

1. Harcourt, J., et al. "Severe Acute Respiratory Syndrome Coronavirus 2 from Patient with Coronavirus Disease, United States." *Emerg. Infect. Dis.* 26 (2020): 1266-1273. PubMed: 32160149.

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