

Rev01
 Update: Dec,21,2021

DATASHEET

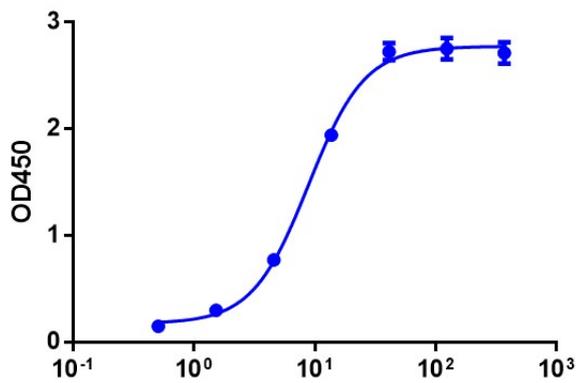
SARS-CoV-2 Nucleocapsid protein (G204R, R203K), His Tag

Cat. No.: Z03731

Product Introduction

Species	SARS-CoV-2
Protein Construction	<div style="display: flex; align-items: center; gap: 10px;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> N protein [Ser2-Ala419 (G204R, R203K)] Accession # P0DTC9 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> Poly-His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	≥ 90% as analyzed by SDS-PAGE
Biological Activity	SARS-CoV-2 Nucleocapsid protein (G204R, R203K), His Tag (Cat. No. Z03731) can bind with SARS-CoV-2 Nucleocapsid Antibody, Human Chimeric (Cat. No. A02039) in functional ELISA assay.
Expression System	E. coli
Theoretical Molecular Weight	46 kDa
Apparent Molecular Weight	~55 kDa, on SDS-PAGE under reducing conditions.
Formulation	Supplied as a solution in PBS pH 7.4 containing 10% glycerol.
Concentration	Please refer to the COA for the specific lot.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -20 °C or below. Avoid repeated freeze-thaw cycles.

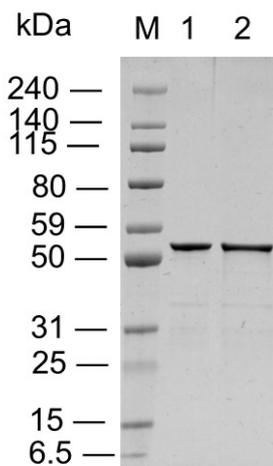
Examples



B.1.1.529 Nucleocapsid protein (ng/ml)

Immobilized SARS-CoV-2 Nucleocapsid Antibody, Human Chimeric (Cat. No. [A02039](#)) at 2 µg/ml can bind SARS-CoV-2 Nucleocapsid protein (G204R, R203K), His Tag (Cat.No. Z03731) with a serial dilution.

THE™ His Tag Antibody [HRP], mAb, Mouse (Cat.No. [A00612](#)) is used as a secondary antibody (0.2 µg/ml).



Lane 1: 1 µg of SARS-CoV-2 Nucleocapsid protein (G204R, R203K), His Tag (Cat.No. Z03731) (NR)

Lane 2: 1 µg of SARS-CoV-2 Nucleocapsid protein (G204R, R203K), His Tag (Cat.No. Z03731) (R)

≥ 90% as analyzed by SDS-PAGE

Background

Target Background : SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as 2019-nCoV (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. Recently, the new B.1.1.529 variant was confirmed in South Africa and preliminary evidence suggests an increased risk of reinfection with this variant. The B.1.1.529 variant was first reported to WHO on 24 November 2021 and WHO has designated this variant as a VOC (Variant of Concern), named Omicron. There are more than 30 mutations in the spike protein.

Synonyms : B.1.1.529; Omicron variant

References :

1. [Classification of Omicron \(B.1.1.529\): SARS-CoV-2 Variant of Concern.](#)
2. [Omicron: What Is Known — and Still Unknown.](#)

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.