

Rev01
 Update: Dec,24,2021

DATASHEET

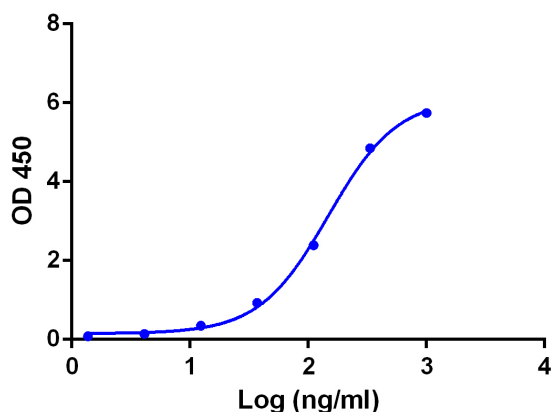
SARS-CoV-2 Spike protein RBD-HRP, Omicron Variant, His Tag

Cat. No.: Z03730

Product Introduction

Species	SARS-CoV-2
Protein Construction	Expressed with the mutations of G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H.
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Spike RBD (Arg319-Phe541) Accession # P0DTC2 </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;"> N-term C-term </div>
Conjugate	HRP
Biological Activity	This protein is validated to bind with human ACE2 in functional ELISA assay.
Expression System	Human Cells
Application	The optimal dilution ratio should be determined by the end user for specific applications. ELISA 1:1000
Formulation	Supplied as a solution in PBS, pH 7.4, 0.1% ProClin 300.
Storage & Stability	Upon receiving, this product remains stable for up to 3 months at 2-8 °C. Protect from light.

Examples

B.1.1.529 RBD-HRP with ACE2


SARS-CoV-2 Spike protein RBD-HRP, Omicron Variant, His Tag (Cat.No. Z03730) can bind with ACE2 in functional ELISA assay.

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.