


Rev03
 Update: Dec,14,2021

DATASHEET

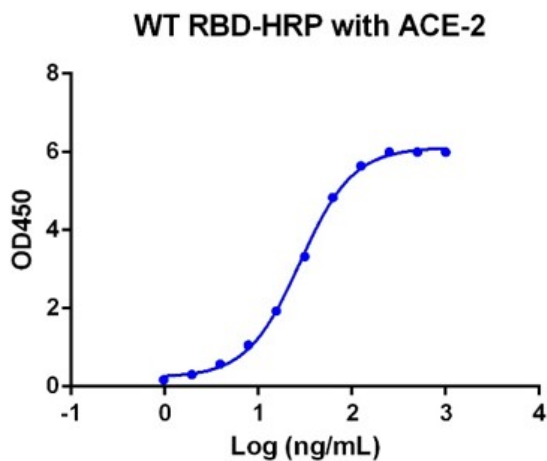
SARS-CoV-2 Spike protein (RBD, Avi & His Tag)-HRP

Cat. No.: Z03594

Product Introduction

Species	SARS-CoV-2
Protein Construction	
Conjugate	HRP
Biological Activity	This protein is validated to bind with human ACE2 (Cat. No. Z03516) 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



SARS-CoV-2 Spike protein (RBD, Avi & His tag)-HRP can bind with ACE-2 Fc Chimera, Human (Cat. No. [Z03516](#)) in a functional ELISA.

Background

Target Background : Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the virus that causes coronavirus disease 2019 (COVID-19), the respiratory illness responsible for the COVID-19 pandemic. SARS-CoV-2 also known as 2019-nCoV, is a positive-sense single-stranded RNA virus and is believed to have zoonotic origins and has close genetic similarity to bat coronaviruses. The receptor binding domain (RBD) of spike protein of the SARS-CoV-2 virus binds Angiotensin-Converting Enzyme 2 (ACE2) to invade the host cells. Based on structural biology studies, the RBD can be oriented either in the up/standing or down/lying state with the up/standing state associated with higher pathogenicity.

Synonyms : SARS-CoV-2 SP RBD, 2019-nCoV S1 RBD, SARS-CoV-2 S1 RBD

References :

1. [The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2.](#) *Nature Microbiology.* 5 (4): 536–544.
2. [The proximal origin of SARS-CoV-2.](#) *Nature Medicine.* 26 (4): 450–452.
3. [The Natural History, Pathobiology, and Clinical Manifestations of SARS-CoV-2 Infections.](#) *Journal of Neuroimmune Pharmacology.* 15 (3): 359–386.

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